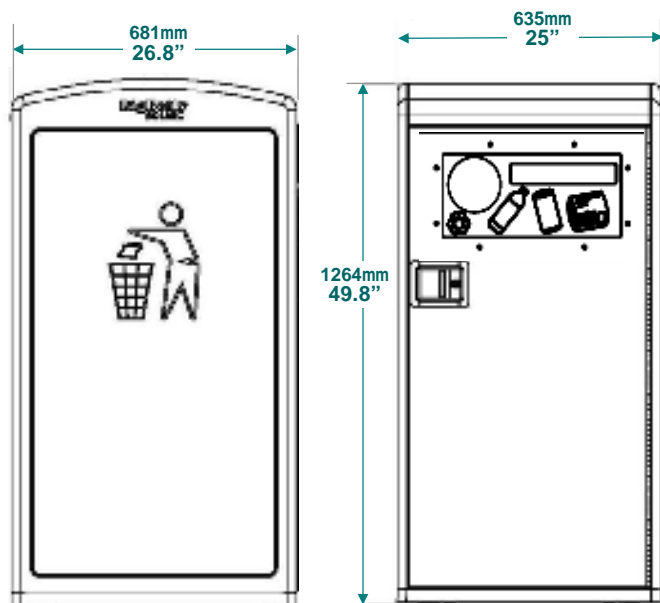


Smartbelly® Standard Capacity Station



Configurations: Mixed waste or single-stream recycling
(with appropriate markings)

Materials

RoHS compliant

Galvanized sheet metal steel interior and exterior construction

Heavy duty plastic side panels for dent and scratch resistance (recycled content)

Interior Bin: Single bin is leak proof made out of low density polyethylene plastic

Power & Electronics

Polycrystalline silicon cell PV module (22 watts).
(40 watts HE [high energy] upgrade available)

PV panel protected by polycarbonate bubble

Spill-proof, sealed maintenance-free battery

Self-powered unit requires no wiring

Technical Specifications (SB5)

Overall Machine Dimensions

Height: 49.8" (1264mm)

Width: 25" (635mm)

Depth: 26.8" (681mm)

Weight: 175 lbs (80kg); Shipping weight: 205 lbs (136kg)

Insertion Opening: Can be configured for multiple recycling or waste streams.

Bin Volume: 50 gallons (189L)

Features

Fully automated, microprocessor controlled system senses fullness and machine status

LED status indicate fullness level, machine status and error codes

GPRS or CDMA wireless data link for remote monitoring and management

GPS assisted location service

Safety Features

CE approved

Fully interlocked access doors protect users and service personnel

Locked front trash removal door. (Locked rear door option available)

Separately keyed service access

Durability

Weather resistant, UV stabilized polyester powder-coat finish on all exterior parts

Electronic components temperature range of -40°F to +185°F
(-40°C to +85°C)

Fully weatherized, but in the event of a flood, Smartbelly can withstand up to 40" (1.06m) of water without harming electronics

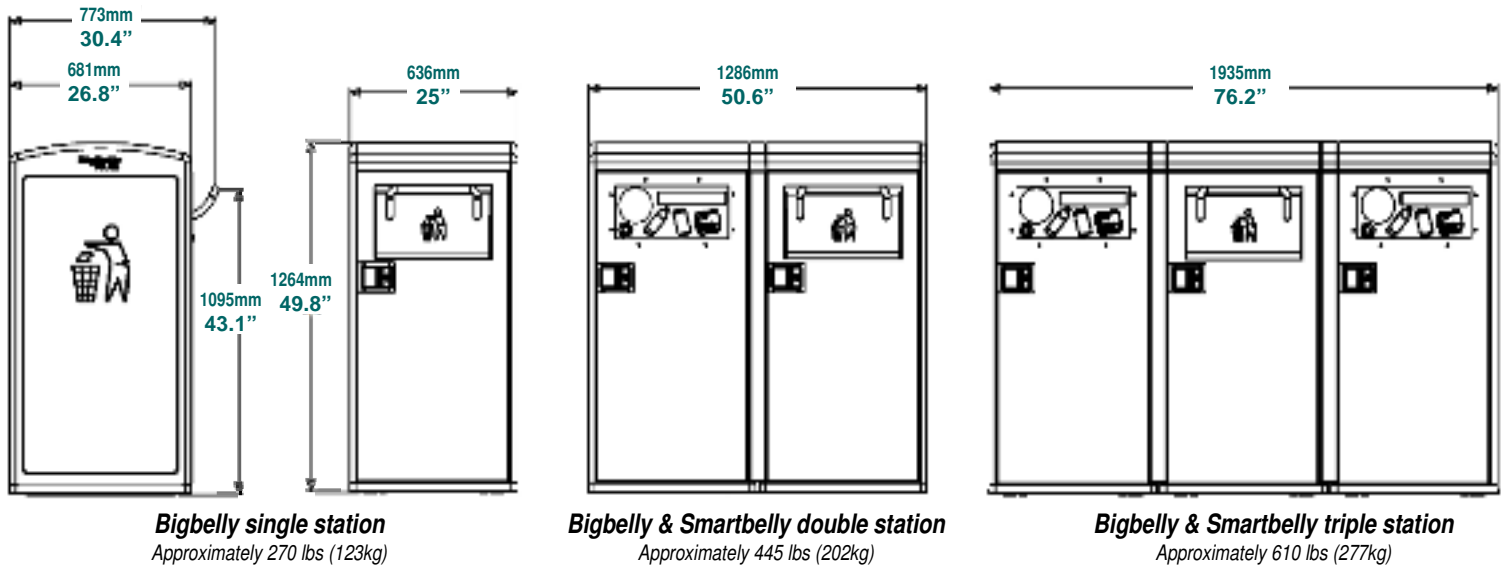
Bigbelly Solar, Inc.
150 A Street – Suite 103
Needham, MA 02494 USA



Sales@Bigbelly.com
Bigbelly.com

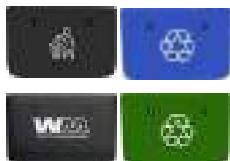
Toll-free: +1 888.820.0300
International: +1 781.444.6002
FAX: +1 781.444.5651

Station Dimensions



| Overall Dimensions | Bigbelly® High Capacity | Smartbelly® Standard Capacity | Smartbelly® Companion |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Height | 49.8" (1264mm) | 49.8" (1264mm) | 49.8" (1264mm) |
| Width | 25" (635mm) | 25" (635mm) | 25" (635mm) |
| Depth | 26.8" (681mm) | 26.8" (681mm) | 26.8" (681mm) |
| Handle Height | 43.1" (1095mm) | - | - |
| Weight | 270 lb (122kg) | 175 lb (80kg) | 164 lb (75kg) |
| Shipping Weight | 300 lb (136kg) | 205 lb (93kg) | 205 lb (93kg) |
| System Voltage | 12V | 12V | - |
| Insertion Opening (see below) | 6" x 17" (15.2cm x 43.2cm) | Can be configured for multiple recycling or waste streams. | Can be configured for multiple recycling or waste streams. |
| Bin Volume | 33 gallons (125L) compacted; 150 gallons uncompactd | 50 gallons (189L) | 50 gallons (189L) |
| Other | | | |
| Liner Bags | Custom Bigbelly Liner Bags (#BBS-CB4647 or #BBS-RCB4647) are available for purchase. Contact WasteZero at 800.866.3954 or www.WasteZero.com/Bigbelly . The black or clear bags are 47"H x 46"W (120cm x 117cm) and 2.5mil (64µ) thick. | Custom Smartbelly Liner Bags (#BBS-RB4255) are available for purchase. Contact WasteZero at 800.866.3954 or www.WasteZero.com/Bigbelly . The clear bags are 55"H x 42.5"W (140cm x 108cm) and 1.25mil (32µ) thick. | Custom Smartbelly Liner Bags (#BBS-RB4255) are available for purchase. Contact WasteZero at 800.866.3954 or www.WasteZero.com/Bigbelly . The clear bags are 55"H x 42.5"W (140cm x 108cm) and 1.25mil (32µ) thick. |

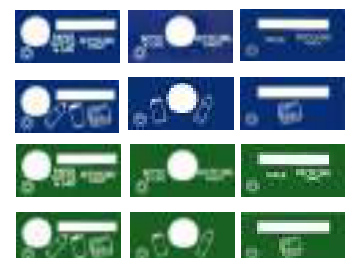
Bigbelly Hoppers



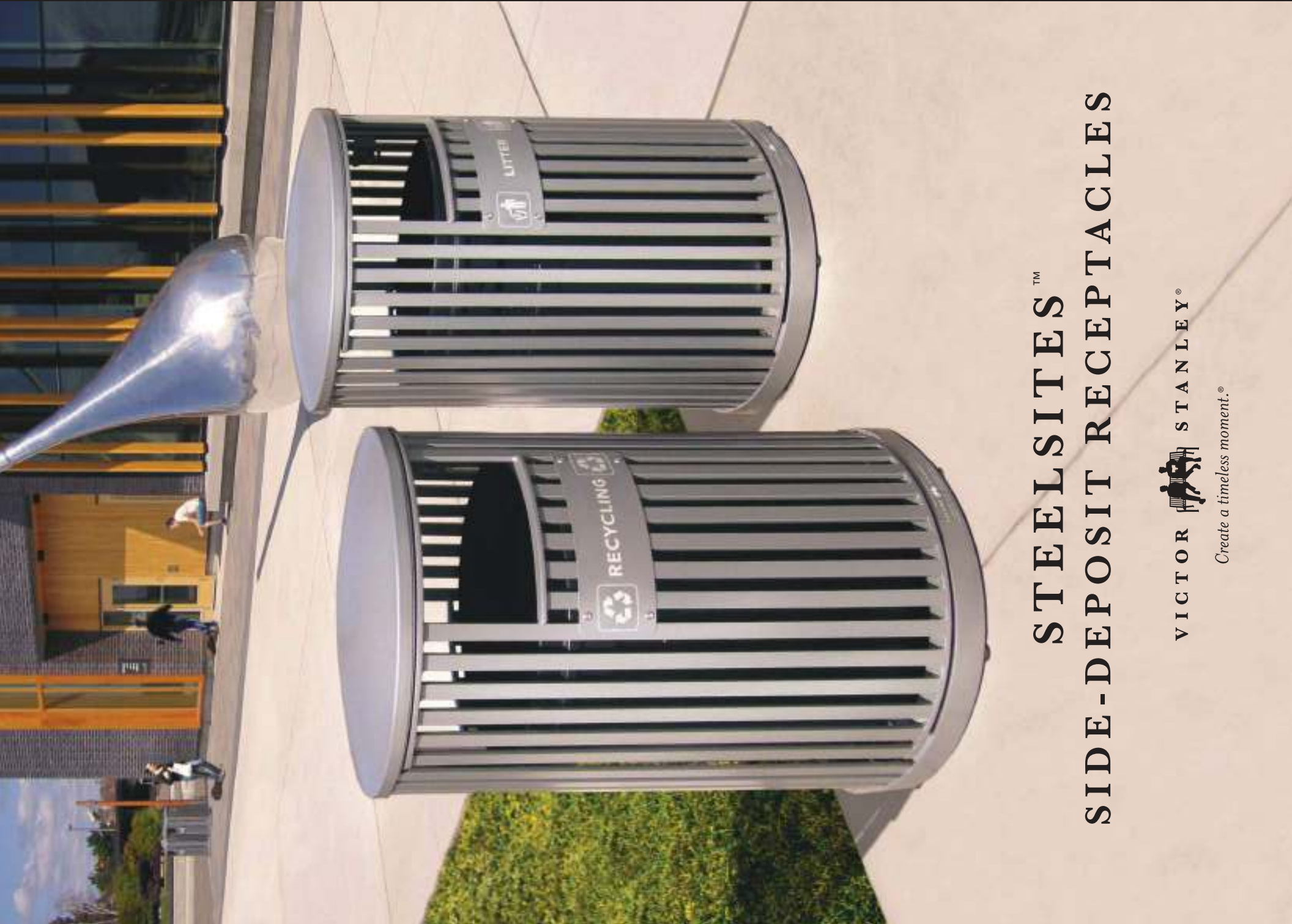
Smartbelly Flaps



Smartbelly Faceplates



PLEASE NOTE: Green hoppers, faceplates or flaps require additional 6 weeks to process.



STEELSITES™
SIDE-DEPOSIT RECEPTACLES

VICTOR  STANLEY®

Create a timeless moment.®

These side-deposit receptacles feature side-door hinges that incorporate stainless-steel pins and oil-impregnated bronze bushings, eliminating friction and maximizing the lifespan of the product. The contemporary SDC and RSDC steel receptacle embraces an uncluttered, clean-lined design, exceptionally high recycled content, and features two unique side-deposits. It's just one more way Victor Stanley helps you create the perfect setting for timeless moments.

SDC SIDE-DEPOSIT RECEPTACLE

Model SDC-36: 36 gal (136 L) capacity.

Model SDC-24: 24 gal (90 L) capacity.

Standard solid convex lid. Heavy steel latch.

OPTIONS

Keyed lock (US Patent 6,339,944 B1). Ashtray (standard or covered). Half-Moon liners. Galvanized steel liner (powder coat available). Side-access plate with recycle holes for SDC-36. Raised band and decals. Custom decals and plaques.



Raised band and decals.

RSDC SIDE-DEPOSIT RECEPTACLE

Model RSDC-36: 36 gal (136 L) capacity.

Standard solid convex lid with divider. Customized steel panels to isolate different waste streams entering the receptacle, such as separating cans or plastic bottles from paper. Heavy steel latch. Half-Moon liners. Standard decal package. US Patents D671,289 S; D661,857 S.

OPTIONS

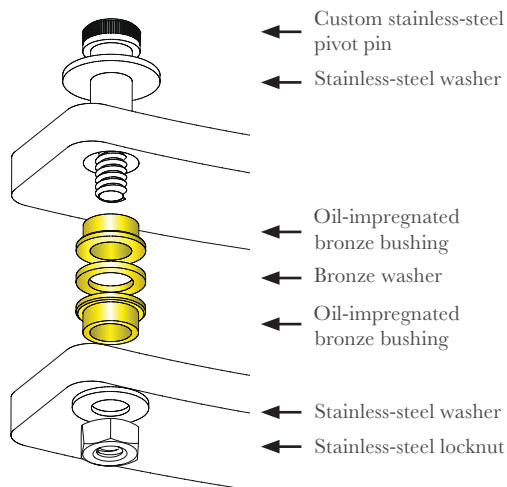
Keyed lock (US Patent 6,339,944 B1). Ashtray (standard or covered). Raised band and decals. Custom decals and plaques.



See product specifications for further details. Drawings are not to scale. Our TGIC powder-coating averages 8-10 mils (200-250 microns) thick and is applied in-house to ensure the highest level of quality. Offered in 12 standard and metallic colors, plus a full range of RAL colors with available color matching. Additional cost may apply.

SIDE-DOOR HINGES

Composed of embedded precision stainless-steel pivot pins and oil-impregnated bronze bushings for reliable all-weather durability year after year.



ASHTRAYS

Our large, heavy duty, stainless steel ashtrays are 2 in (51 mm) deep and are available in standard or covered.



KEYED LOCK

Our keyed lock (US Patent 6,339,944 B1) is a unique design with a custom key to prevent tampering and residential trash.



HIGH-DENSITY PLASTIC LINERS

Our standard full and Half-Moon plastic receptacle liners (pair) are formed on custom molds designed for us. Reinforced, ribbed and molded for durability and ease of use. The primary raw material is recycled resin. Half-Moon liners make it easier and more cost effective than ever to separate different waste streams without sacrificing capacity or durability.



SDC-36 with optional tri-keyed lock, optional raised band, custom side-plates and decals.

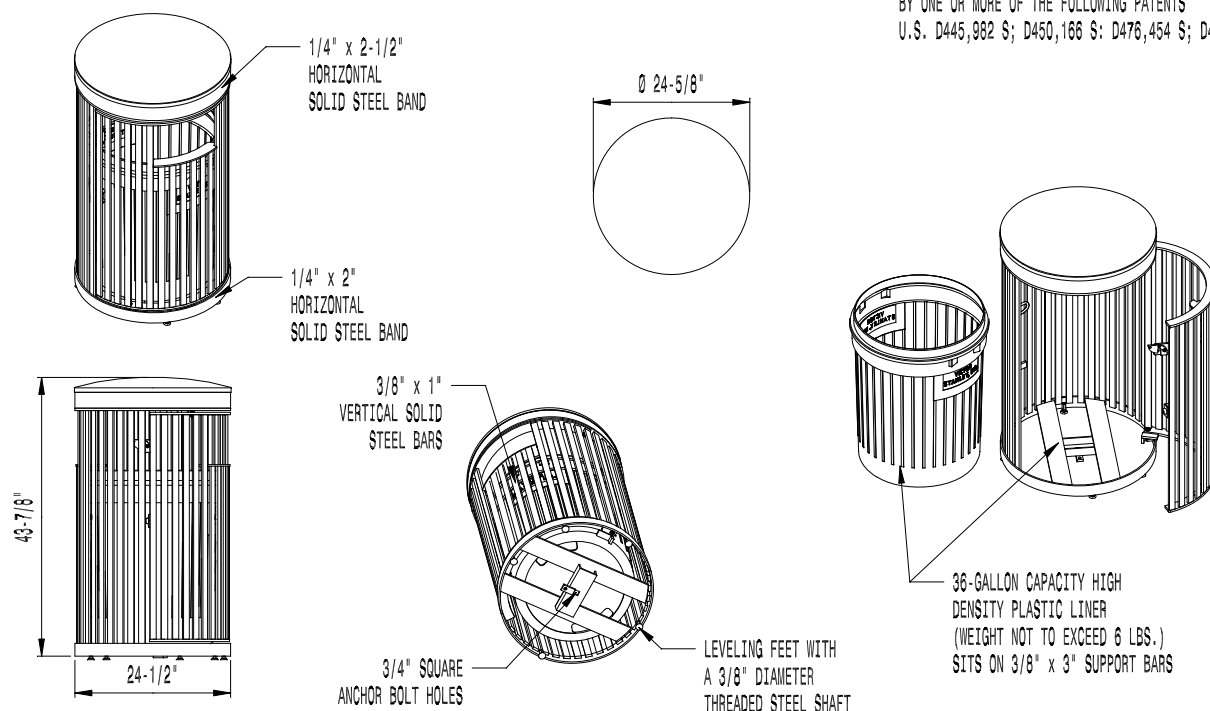
Victor Stanley, a leader in quality site furnishings, helps you bring your visions to life. From benches and litter receptacles to bike racks and planters, we meticulously design, engineer, and manufacture every detail to ensure our site furnishings will withstand the test of time. Founded over 50 years ago, we help create a place for people to gather, live life, and make timeless moments.



Create a timeless moment.®

* ALL DIMENSIONS ARE IN INCHES *

DERIVED FROM NSDC-36 RECEPTACLE. NSDC-36 COVERED
BY ONE OR MORE OF THE FOLLOWING PATENTS
U.S. D445,982 S; D450,166 S; D476,454 S; D476,455 S



AVAILABLE OPTIONS:

POWDER COATING

10 STANDARD COLORS, 2 OPTIONAL METALLIC COLORS,
CUSTOM COLORS (INCLUDING THE RAL RANGE)

CUSTOM PLAQUES & DECALS

AVAILABLE WITH STEEL PLAQUES IN VARIOUS SIZES AND PRESSURE
SENSITIVE VINYL OUTDOOR DECALS.

LID

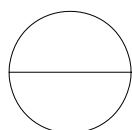
STANDARD WITH SOLID CONVEX LID, AVAILABLE WITH OPTIONAL
SOLID CONVEX LID WITH RAISED BAND (AS SHOWN). AVAILABLE WITH OPTIONAL
STAINLESS STEEL ASHTRAY. ASHTRAYS AVAILABLE WITH OPTIONAL ASHTRAY COVER.

SECURITY

SHOWN WITH STANDARD INTERIOR LATCH. AVAILABLE WITH OPTIONAL KEYED LOCK BOX OR
TRI-KEYED LOCK BOX. LID BOLTED IN PLACE. AVAILABLE WITH OPTIONAL
SIDE-ACCESS PLATE WITH RECYCLE HOLES; OPTIONAL MOUNT WITH 3 IN-LINE
ANCHOR HOLES AND OPTIONAL BOTTOM PLATE COVER.

NOTES:

1. DRAWINGS NOT TO SCALE. DO NOT SCALE DRAWINGS.
2. ALL FABRICATED METAL COMPONENTS ARE STEEL SHOTBLASTED, ETCHED, PHOSPHATIZED, PREHEATED, AND ELECTROSTATICALLY POWDER-COATED WITH T.G.I.C. POLYESTER POWDER COATINGS. PRODUCTS ARE FULLY CLEANED AND PRETREATED, PREHEATED AND COATED WHILE HOT TO FILL CREVICES AND BUILD FILM COATING. COATED PARTS ARE THEN FULLY CURED TO COATING MANUFACTURER'S SPECIFICATIONS. THE THICKNESS OF THE RESULTING FINISH AVERAGES 8-10 MILS (200-250 MICRONS).
3. OIL IMPREGNATED BRONZE BUSHINGS AND STAINLESS STEEL PIVOT PINS FOR DOOR MOVEMENT, STANDARD 3/16" SOLID STEEL LATCH ASSEMBLY OR OPTIONAL PATENTED STAINLESS STEEL KEYED LOCK ASSEMBLY.
4. THIS VICTOR STANLEY, INC. PRODUCT MUST BE PERMANENTLY AFFIXED TO THE GROUND. CONSULT YOUR LOCAL CODES FOR REGULATIONS.
5. VICTOR STANLEY, INC., PLASTIC INNER LINERS ARE MOLDED ON TOOLING DESIGNED FOR AND OWNED BY VICTOR STANLEY, INC. THEY OFFER MAXIMUM CAPACITY AND STRENGTH WITH LIGHTWEIGHT CONSTRUCTION USING CRITICAL MOLDED RIBS, INTEGRAL HANDHOLDS, AND HIGH-STRENGTH MATERIALS. THIS MINIMIZES HANDLING DIFFICULTY AND FACILITATES EASY EMPTYING AND STORAGE WHILE AFFORDING LONG SERVICE LIFE.
6. ANCHOR BOLT NOT PROVIDED BY VICTOR STANLEY, INC.
7. FOR HIGH SALT ABUSIVE CLIMATES, HOT-DIP GALVANIZING BEFORE POWDER COATING IS AVAILABLE. HOT-DIP GALVANIZING IS PERFORMED FOR VICTOR STANLEY, INC. BY AN EXPERIENCED QUALIFIED FIRM TO WHICH PRODUCTS ARE SHIPPED FOR GALVANIZING. HOT-DIP GALVANIZING INCLUDES AN AGGRESSIVE PRE-TREATMENT AND IMMERSION IN A TANK OF CHARGED LIQUID ZINC AT OR AROUND 860°F (460°C). THE RESULTING SURFACE IS RESISTANT TO RUST BUT HAS SOME UNEVENNESS RESULTING FROM THE BONDING OF THE ZINC TO THE STEEL SURFACE. AS A RESULT, THE POWDER-COATING SURFACE FINISH OVER THAT GALVANIZED SURFACE MAY EXHIBIT BUMPS, UNEVENNESS, AND MAY NOT BE AS SMOOTH AS THE STANDARD FINISH; THIS UNEVEN AND INCONSISTENT FINISH IS NORMAL FOR GALVANIZING. CONTACT MANUFACTURER FOR DETAILS.
8. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE. CONTACT MANUFACTURER FOR DETAILS.
9. THIS PRODUCT IS SHIPPED FULLY ASSEMBLED.



SDC-36

STEELSITES™ SERIES

36 GALLON SIDE-DOOR-OPENING LITTER RECEPTACLE WITH SIDE ACCESS
SHOWN: OPTIONAL SOLID CONVEX LID WITH RAISED BAND



The Portland Loo
A Unique Solution to a Universal Problem

QUOTE

Date:
Invoice #:
Customer ID:
Expires:

To: Name: Ship to: Zip Code 05401
City:
Address

| Salesperson | Shipping Method | Shipping Terms | Delivery Date | Payment Terms |
|-------------|-----------------|----------------|---------------|---------------|
| Evan Madden | Truck | FOB Burlington | 90 Days ARO | see attached |

| Item # | QTY | Description | Unit Price | Line Total |
|--------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|
| 1 | 1 | Portland Loo- Single occupant public toilet. Basic unit carbon steel posts and 304 SS panels, louvers, door & roof. 40W heat trace, interior and exterior LED lighting with photoeye and motion sensor control and occupancy counter. AC power option. (LH/RH door swing and LH/RH hand wash basin to be determined later) See attached drawings. | \$90,000.00 | \$90,000.00 |
| 2 | 1 | Portland Loo- Single occupant public toilet. Basic unit carbon steel posts and 304 SS panels, louvers, door & roof. 40W heat trace, interior and exterior LED lighting with photoeye and motion sensor control and occupancy counter. Solar powered only option with 3 panel solar, 2 batteries, and solar controller. (LH/RH door swing and LH/RH hand wash basin to be determined later) See attached drawings. | \$92,000.00 | \$92,000.00 |
| 3 | 1 | Portland Loo- Single occupant public toilet. Basic unit carbon steel posts and 304 SS panels, louvers, door & roof. 40W heat trace, interior and exterior LED lighting with photoeye and motion sensor control and occupancy counter. Hybrid power option with 3 panel solar, solar controller and 2 battery back up. (LH/RH door swing and LH/RH handwash basin to be determined later) See attached drawings. | \$92,600.00 | \$92,600.00 |
| 4 | 1 | Loo Template | incl | - |
| 5 | 1 | Foundation Mounting Hardware | incl | - |
| 6 | 1 | Shipping & Handling One Restroom | \$6,600.00 | \$6,600.00 |
| 7 | 1 | Cold Weather Toilet Upgrade | \$4,500.00 | \$4,500.00 |
| 8 | 1 | Baby Changing Table | \$1,470.00 | \$1,470.00 |
| 9 | 1 | Sharps Container | \$500.00 | \$500.00 |
| 10 | 1 | Trash Can | \$100.00 | \$100.00 |
| 11 | 1 | Hand Wash Basin | \$1,500.00 | \$1,500.00 |

Subtotal
Total See Above

Make all checks payable to Madden Fabrication
Thank you for your business!
2550 NW 25th Pl. Portland, Oregon 97210 (503)226-3968

THE PORTLAND LOO

STRUCTURAL/ARCHITECTURAL DRAWINGS

GENERAL NOTES

- 1. WEIGHT : 6,013 lbs
- 2. SQUARE FOOTAGE : 51.5
- 3. ALL STRUCTURAL STEEL TO BE FABRICATED AND ERECTED IN ACCORDANCE WITH AISC MANUAL 9th EDITION & A.W.S. ALL PANELS, LOUVERS, AND ROOF TO BE 304 STAINLESS STEEL,
- 4. STRUCTURAL TUBING ASTM 500 GR. B
- 5. ANCHOR BOLTS 1/2" X 5" TITENS
- 6. ALL WELDING TO BE DONE BY CERTIFIED WELDERS.
- 7. ALL EXPOSED BOLTS AND SCREWS TO BE TAMPER RESISTANT FOR HEX PIN BITS.
- 8. RIVET NUTS TO BE C.F.T. SERIES AND STAINLESS STEEL 302.
- 9. ALL MATERIALS TO BE SAND BLASTED AND POWDER COATED
- 10. ALL STRUCTURES TO BE FABRICATED OFF SITE SHALL BE DONE IN SHOPS OR FABRICATORS LICENSED OR APPROVED BY THE BUILDING AND ENGINEERING DIVISION OF THE CITY FOR WHICH IT IS INTENDED FOR

DESIGN INFORMATION

- 1. DESIGN IS BASED ON INTERNATIONAL BUILDING COLD IRC 2012 EDITION AND ASCE7-10
- 2. SNOW LOAD=25 PSF MAX
- 3. WIND DESIGN CRITERIA: 140 MPH (3-SECOND GUST) EXPOSURE C
- 4. SEISMIC DESIGN CRITERIA: SDS=1.0 MAXIMUM, R-6.5 (LIGHT FRAME SHEAR WALL), IMPORTANCE FACTOR=1
- 5. SEISMIC DESIGN CATEGORY: D
- 6. SITE CLASS D
- 7. CONTRACTOR TO VERIFY DESIGN PARAMETERS SHOWN WITH ACTUAL SITE CONDITIONS AND INSURE ACTUAL SITE PARAMETERS NOT EXCEED DESIGN

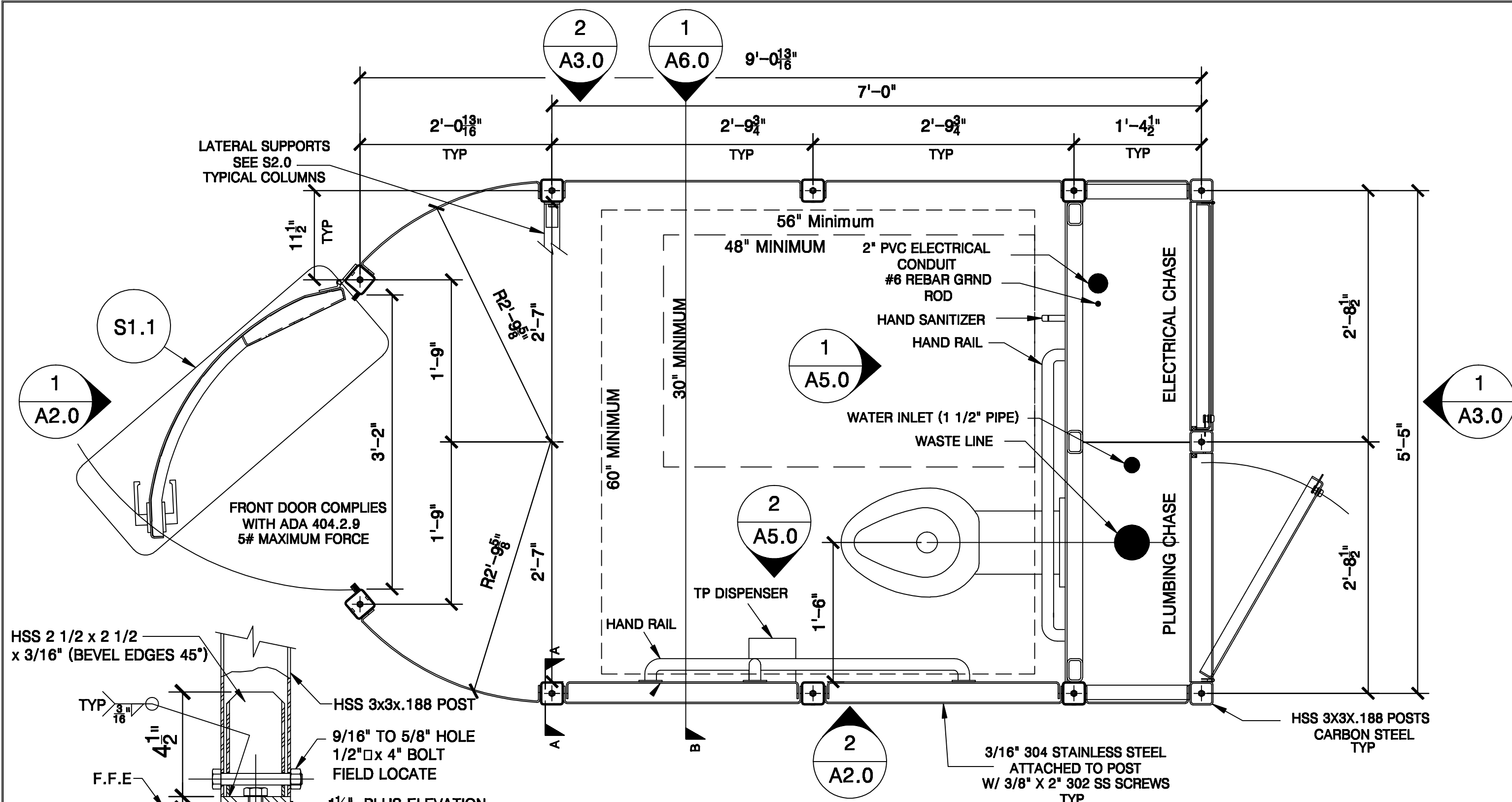
SHEET INDEX

| | |
|------|----------------------------------------|
| A0.0 | COVER SHEET |
| A1.0 | FLOOR PLAN |
| A2.0 | EXTERIOR ELEVATIONS FRONT & RIGHT SIDE |
| A3.0 | EXTERIOR ELEVATIONS BACK & LEFT SIDE |
| A4.0 | ROOF LAYOUT |
| A5.0 | INTERIOR SECTION VIEWS |
| A6.0 | INTERIOR SECTION VIEW |
| S1.0 | COLUMN AND BEAM LAYOUT |
| S2.0 | FRONT DOOR |
| S3.0 | FOUNDATION & ANCHOR BOLT LOCATIONS |
| S4.0 | STANDARD OPTIONS |
| P1.0 | PLUMBING FLOOR PLAN |
| P2.0 | PLUMBING DETAIL |
| E1.0 | ELECTRICAL SCHEMATIC |

SPECIAL INSPECTIONS

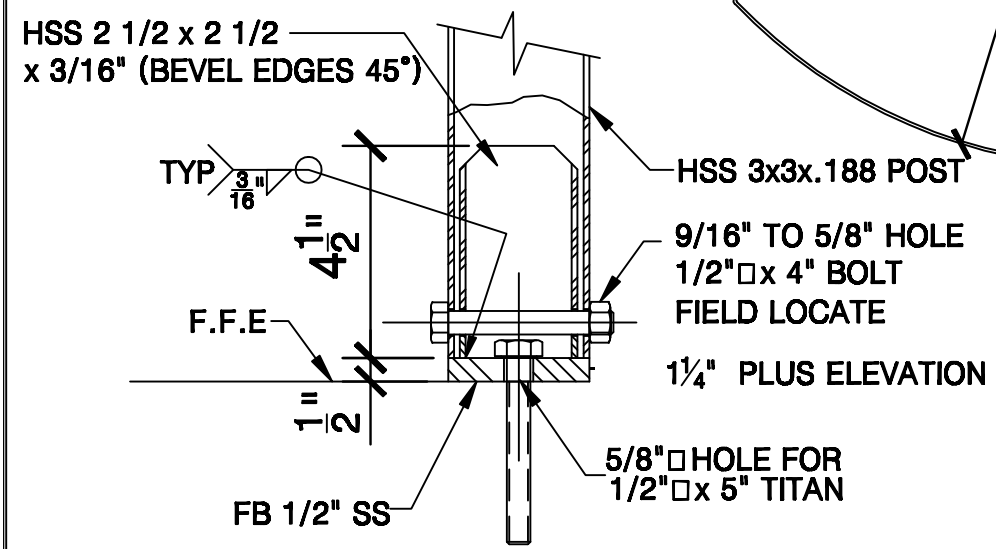
- 1. AN INDEPENDENT TESTING COMPANY OR SPECIAL INSPECTOR RETAINED BY THE OWNER AND APPROVED BY THE BUILDING OFFICIAL SHALL INSPECT THE FOLLOWING.
 - A. FOUNDATION REINFORCING STEEL PLACEMENT
 - B. VERIFY USE OF REQUIRED CONCRETE MIX DESIGN
 - C. CONCRETE PLACEMENT
 - D. ANCHOR BOLTS-TITENS (INSTALLED AFTER CONCRETE HAS HARDENED)

| | | | | | | | | | |
|-----|------|-------------|-----|-------|--------------------------------------------------------------------------------------------------------------------------------|--------------|-----------|------------|----------|
| | | | | | <div>MADDEN FABRICATION</div> <div>2550 NW 25th Place • Portland, OR. 97210 Phone: (503) 226-3968 Fax (503) 242-2446</div> | PORTLAND LOO | | | |
| | | | | | | COVER SHEET | | | |
| | | | | | | NAME | DATE | SERIAL NO. | DRW. NO. |
| | | | | | | LEO | 4/16/2015 | | A0.0 |
| REV | DATE | DESCRIPTION | DRN | APP'D | | | | | |



FLOOR PLAN

SCALE: 1" = 1'-0"

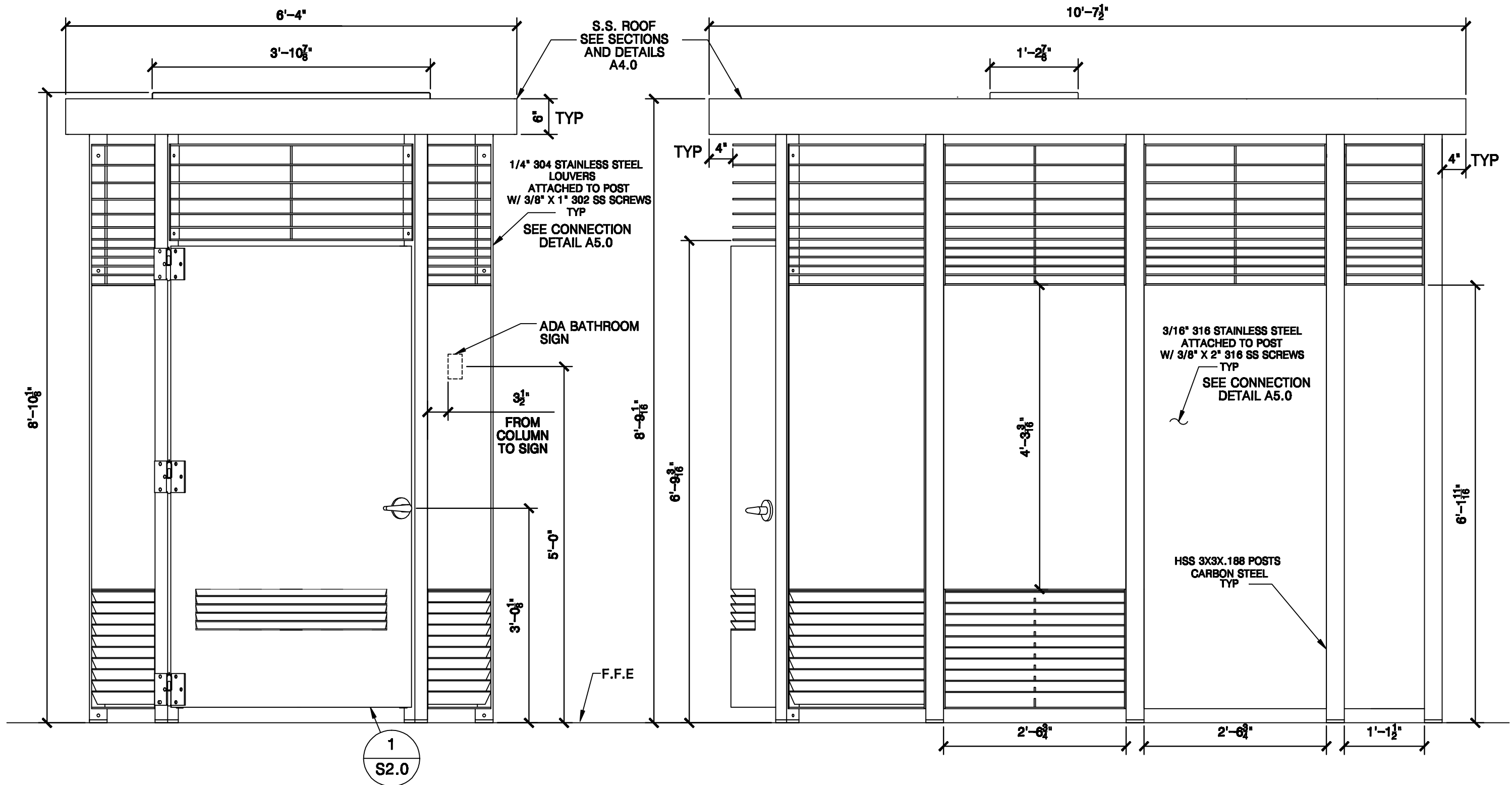


SECTION A-A

Typ anchoring system
(11) REQ'D

| | | | | | | | | | | | | |
|-----|------|-------------|-----|------|---------------------------------------------------------------------------------------|--------------|------|------------|----------|-----------|--|------|
| | | | | |  | PORTLAND LOO | | | | | | |
| | | | | | | FLOOR PLAN | | | | | | |
| | | | | | | NAME | DATE | SERIAL NO. | DRW. NO. | | | |
| REV | DATE | DESCRIPTION | DRN | APPD | 2550 NW 25th Place • Portland, OR. 97210 Phone: (503) 226-3968 Fax (503) 242-2446 | | | | LEO | 4/16/2015 | | A1.0 |





1
A2.0

FRONT ELEVATION VIEW

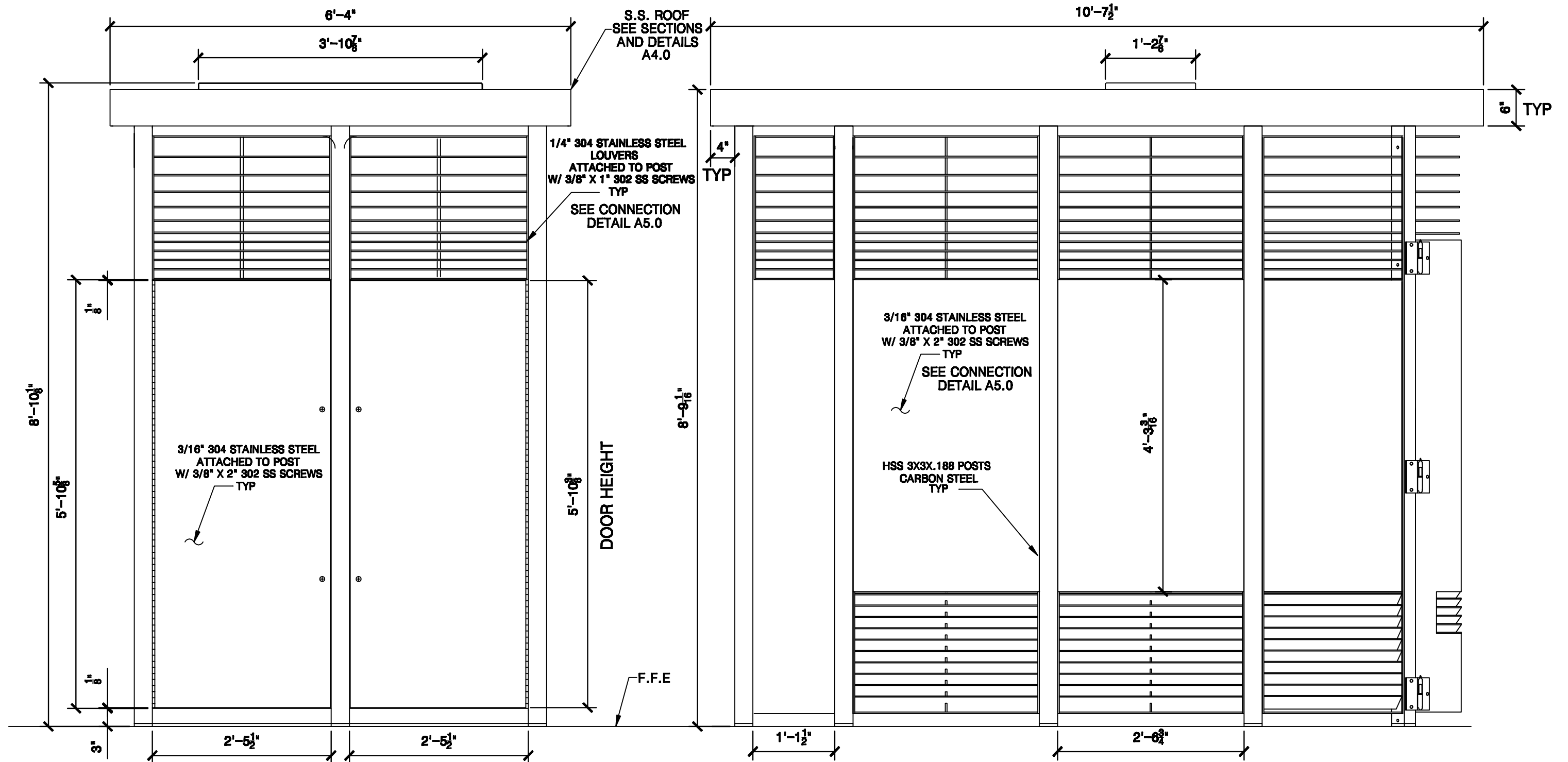
SCALE: 3/4" = 1'-0"

2
A2.0

RIGHT ELEVATION VIEW

SCALE: 3/4" = 1'-0"

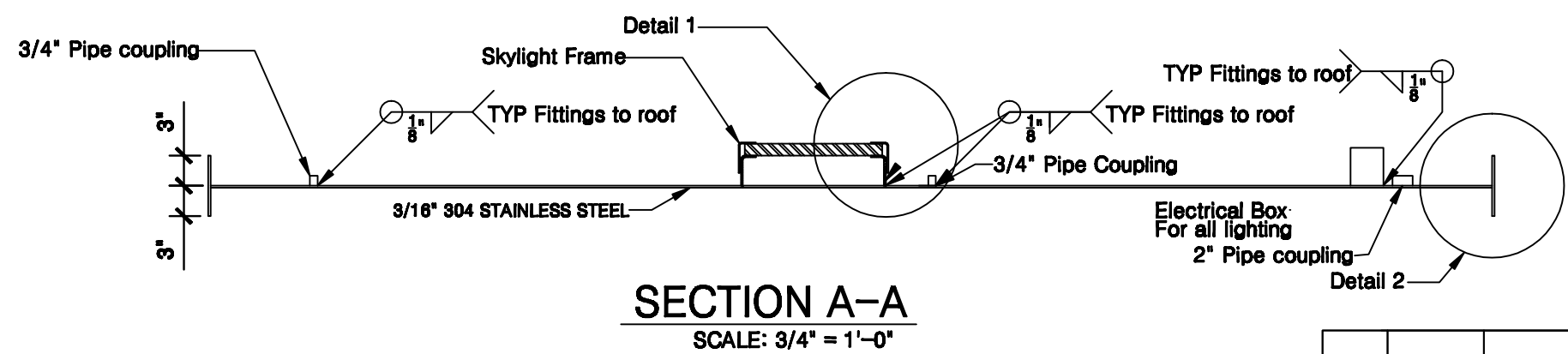
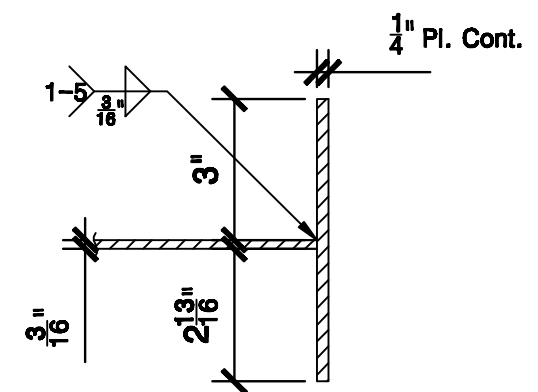
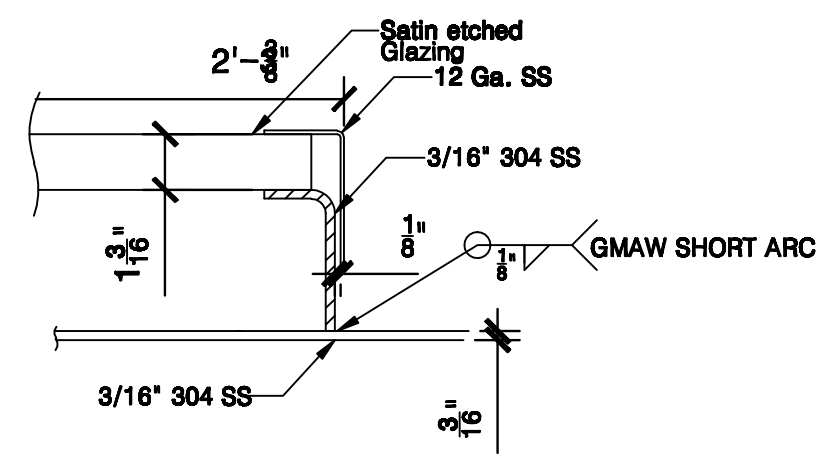
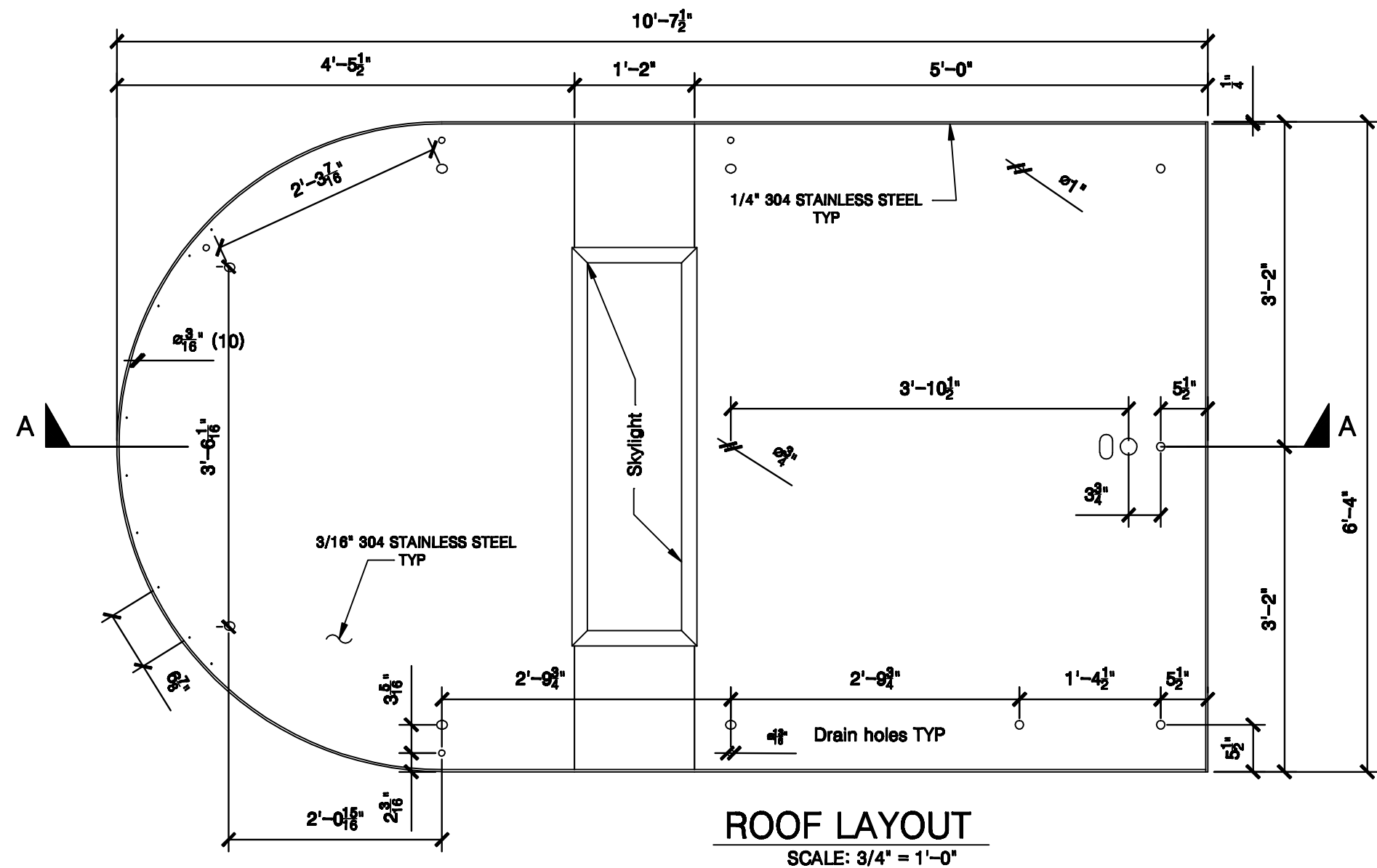
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|------------|-------------|--------------------|------------|-------------|--------------------------------------------------------------------------------------|-------------------------------------------------|------------------|-------------------|-----------------|
| | | | | | MADDEN FABRICATION | PORTLAND LOO | | | |
| | | | | | | EXTERIOR ELEVATIONS FRONT AND RIGHT SIDE | | | |
| | | | | | | NAME | DATE | SERIAL NO. | DRW. NO. |
| REV | DATE | DESCRIPTION | DRN | APPD | | LEO | 4/16/2015 | | A2.0 |
| | | | | | 2550 NW 25th Place • Portland, OR. 97210 Phone: (503) 226-3968 Fax (503) 242-2446 | | | | |



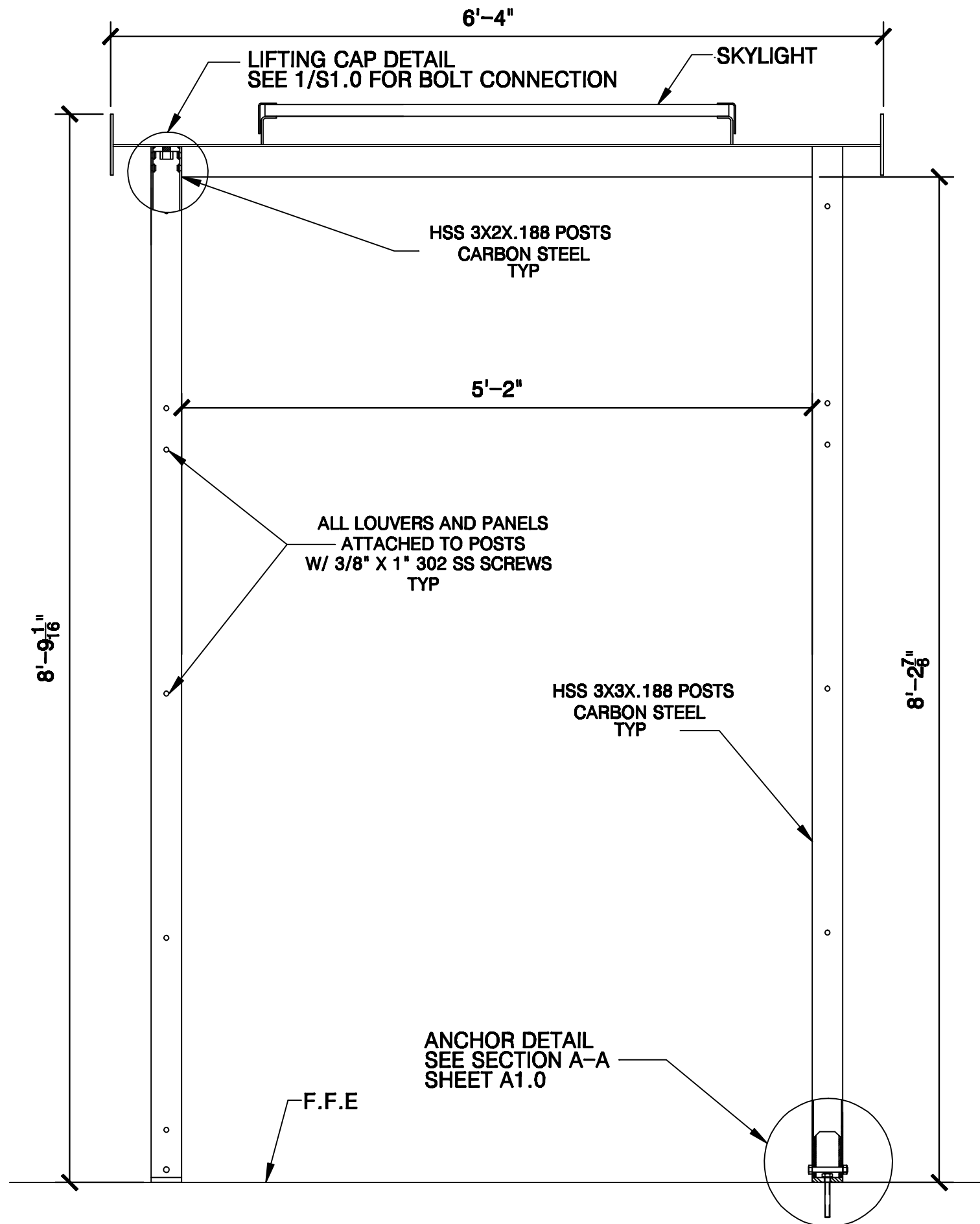
1 BACK ELEVATION VIEW
A3.0 SCALE: 3/4" = 1'-0"

2 LEFT ELEVATION VIEW
A3.0 SCALE: 3/4" = 1'-0"

| | | | | | | | | | |
|-----|------|-------------|-----|-------|---------------------------------------------------------------------------------------|----------------------------------------|-----------|------------|----------|
| | | | | |  | PORTLAND LOO | | | |
| | | | | | | EXTERIOR ELEVATIONS BACK AND LEFT SIDE | | | |
| | | | | | | NAME | DATE | SERIAL NO. | DRW. NO. |
| REV | DATE | DESCRIPTION | DRN | APP'D | | LEO | 4/16/2015 | | A3.0 |
| | | | | | 2550 NW 25th Place • Portland, OR. 97210 Phone: (503) 226-3968 Fax (503) 242-2446 | | | | |



| | | | | | | | | | | | | |
|-----|------|-------------|-----|------|---------------------------------------------------------------------------------------|--------------|------|------------|----------|-----------|--|------|
| | | | | |  | PORTLAND LOO | | | | | | |
| | | | | | | ROOF LAYOUT | | | | | | |
| | | | | | | NAME | DATE | SERIAL NO. | DRW. NO. | | | |
| REV | DATE | DESCRIPTION | DRN | APPD | 2550 NW 25th Place • Portland, OR. •97210 Phone: (503) 226-3968 Fax (503) 242-2446 | | | | LEO | 4/16/2015 | | A4.0 |

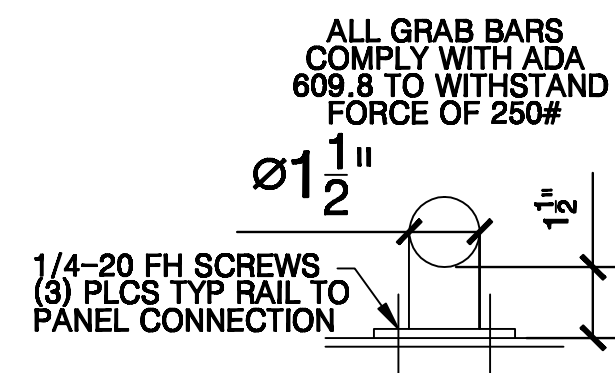
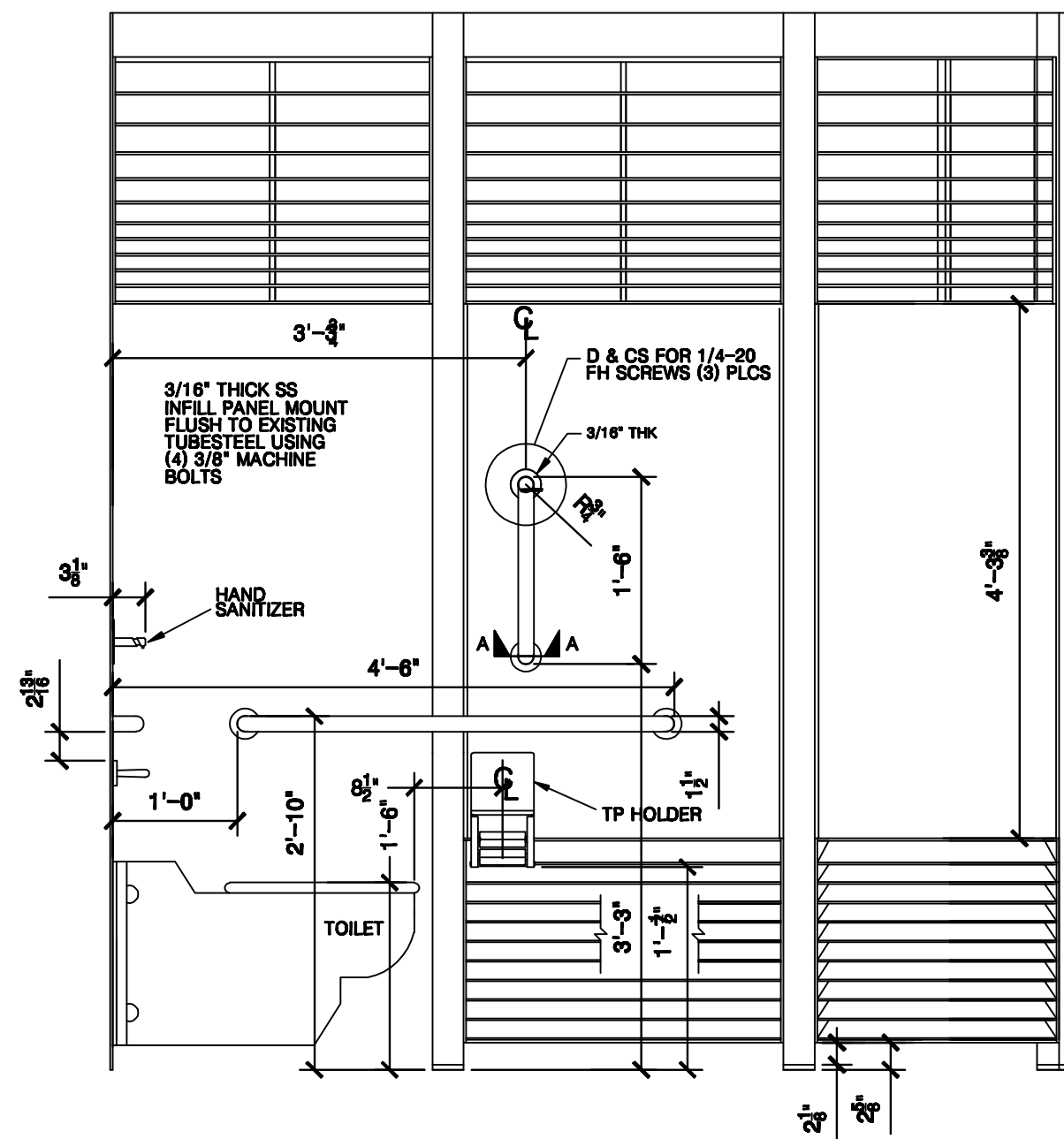
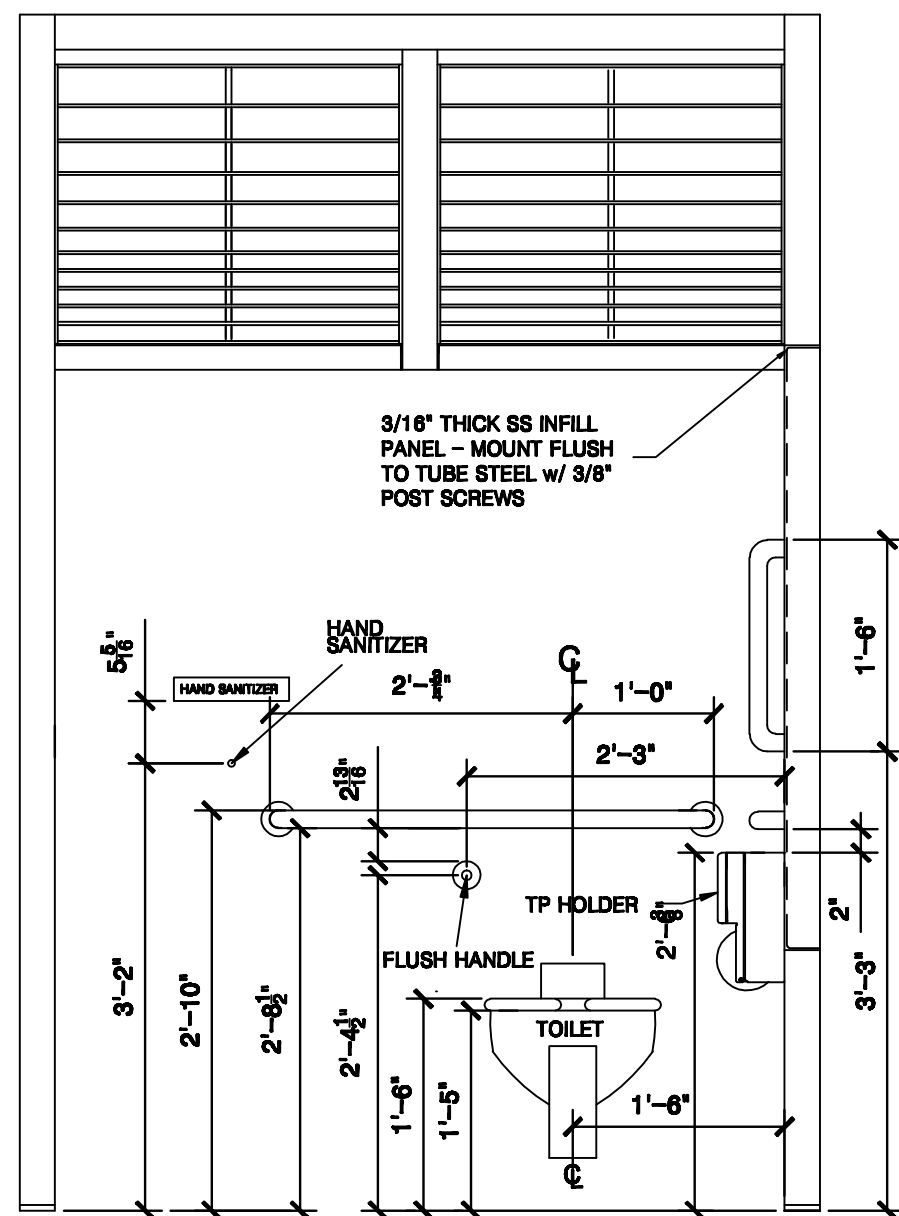


B-B
A1.0

INTERIOR ELEVATION VIEW

SCALE: 3/4" = 1'-0"

| | | | | | | | | | |
|-----|------|-------------|-----|------|---------------------------------------------------------------------------------------|-----------------------|-----------|------------|----------|
| | | | | |  | PORTLAND LOO | | | |
| | | | | | | INTERNAL SECTION VIEW | | | |
| | | | | | | NAME | DATE | SERIAL NO. | DRW. NO. |
| REV | DATE | DESCRIPTION | DRN | APPD | | LEO | 4/16/2015 | | A5.0 |

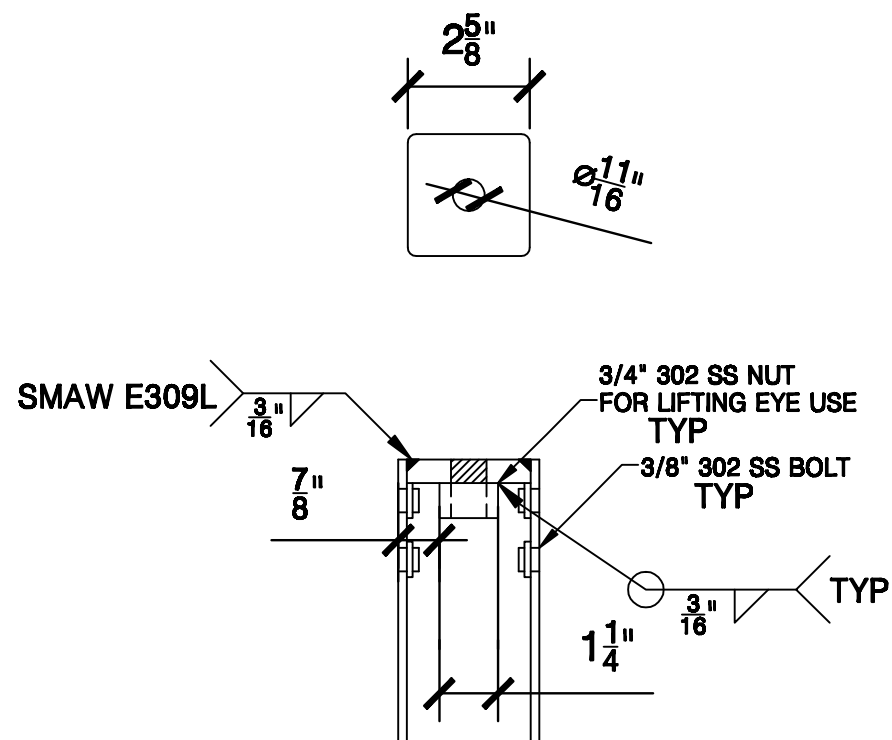


SECTION A-A
Type anchoring system
(11) REQ'D
SCALE: 3" = 1'-0"

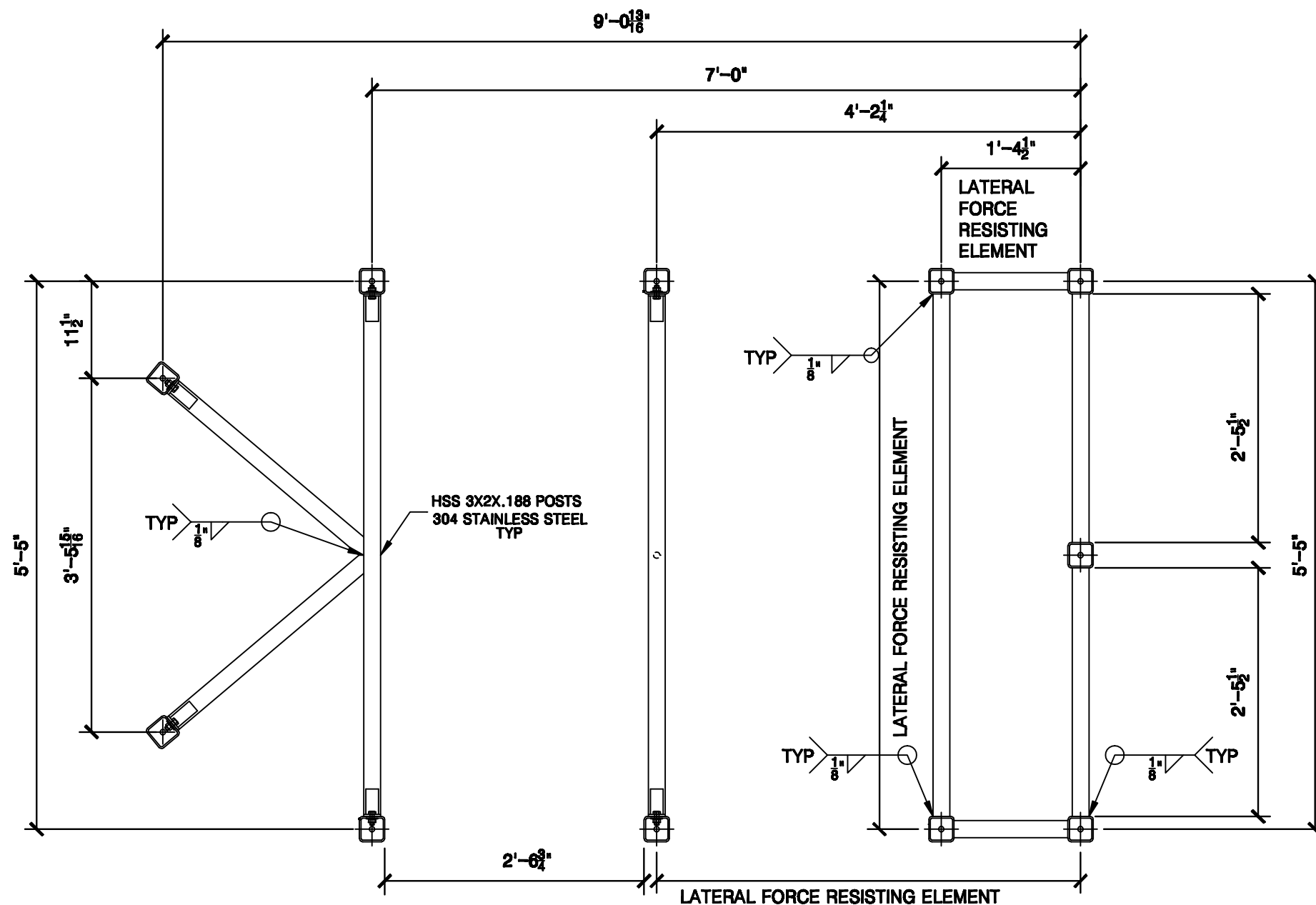
1 A5.0 WATER CLOSET RAILING 1 1/2" x 120" wall ss Plate 3/16" ss (1) Assm REQ'D SCALE: 3/4" = 1'-0"

2 A5.0 WATER CLOSET RAILING --- 1 1/2" x 120" wall ss Plate 3/16" ss (1) Assm REQ'D SCALE: 3/4" = 1'-0"

| | | | | | | | | | |
|-----|------|-------------|-----|-------|---------------------------------------------------------------------------------------|------------------------|-----------|------------|----------|
| | | | | |  | PORTLAND LOO | | | |
| | | | | | | INTERNAL SECTION VIEWS | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| REV | DATE | DESCRIPTION | DRN | APP'D | 2550 NW 25th Place • Portland, OR. 97210 Phone: (503) 226-3968 Fax (503) 242-2446 | NAME | DATE | SERIAL NO. | DRW. NO. |
| | | | | | | LEO | 4/18/2015 | | A6.0 |

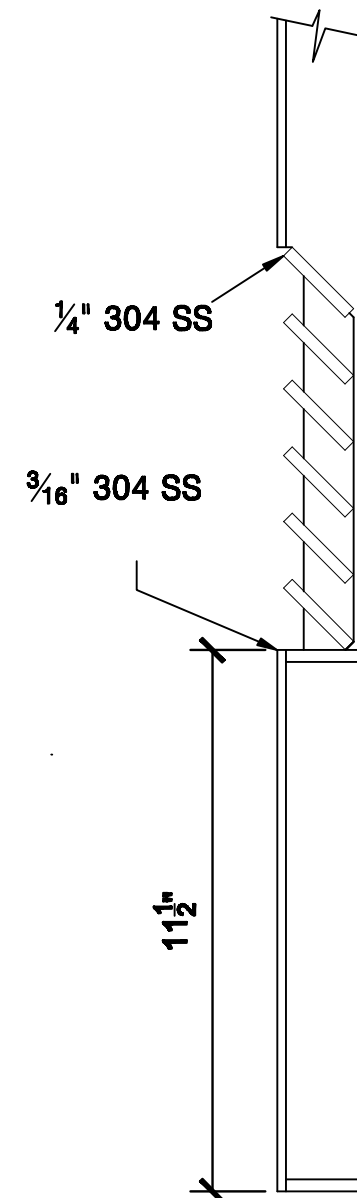
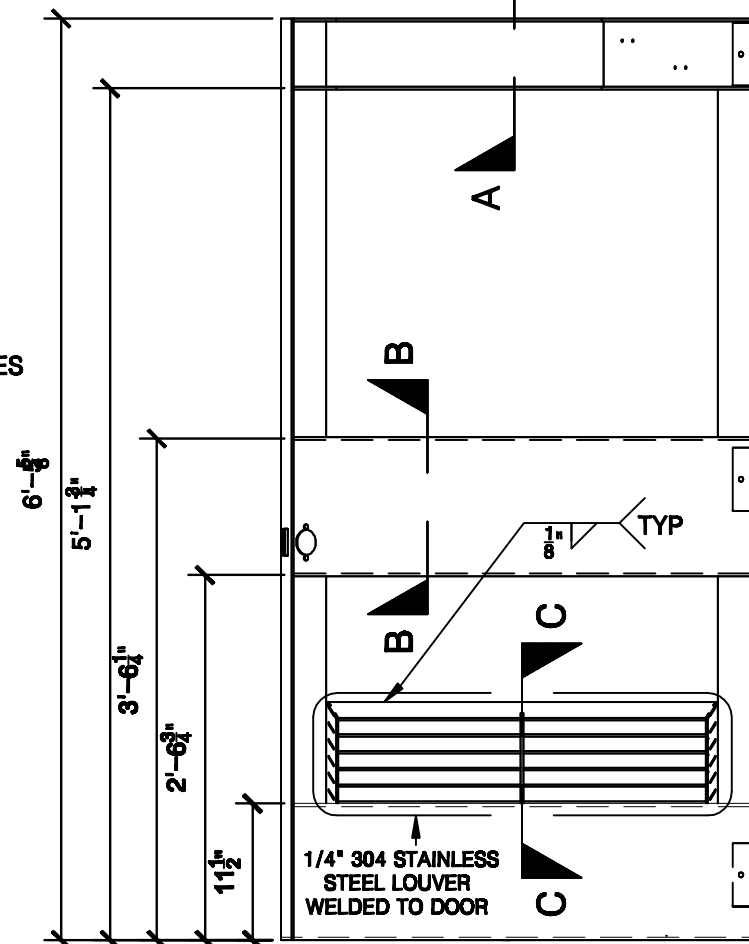
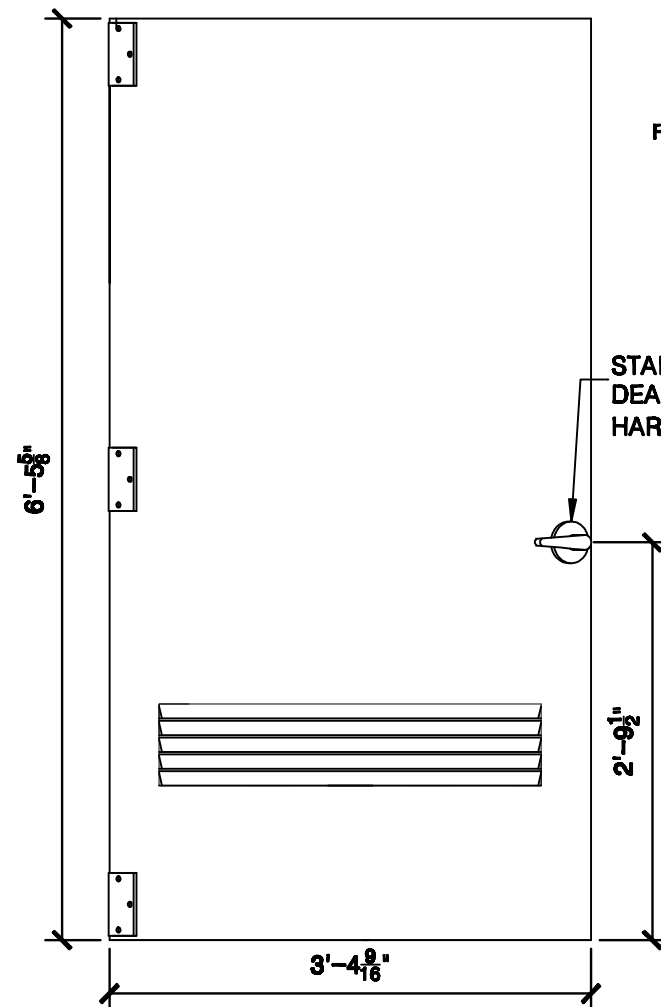
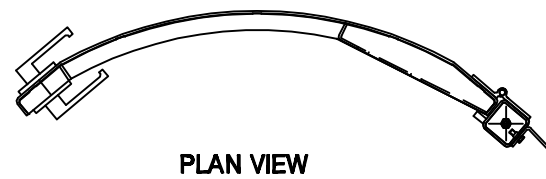
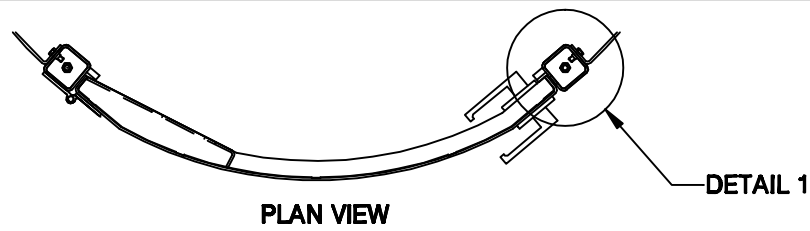


1
S1.0
COLUMN LIFTING CAP
 1/2" 304 SS
 TAP FOR 3/4-10 Bolt
 (11) REQ'D
 SCALE: 3" = 1'-0"

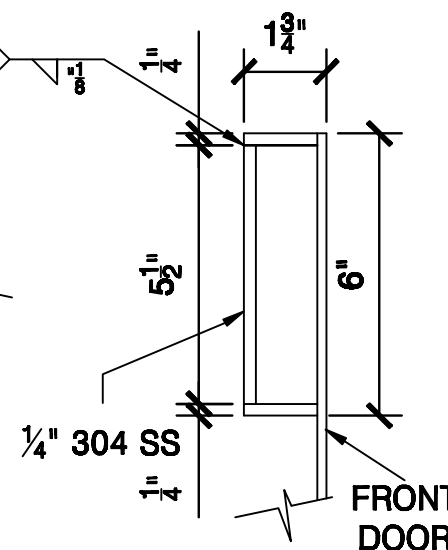


COLUMN AND BEAM LAYOUT
 SCALE: 3/4" = 1'-0"

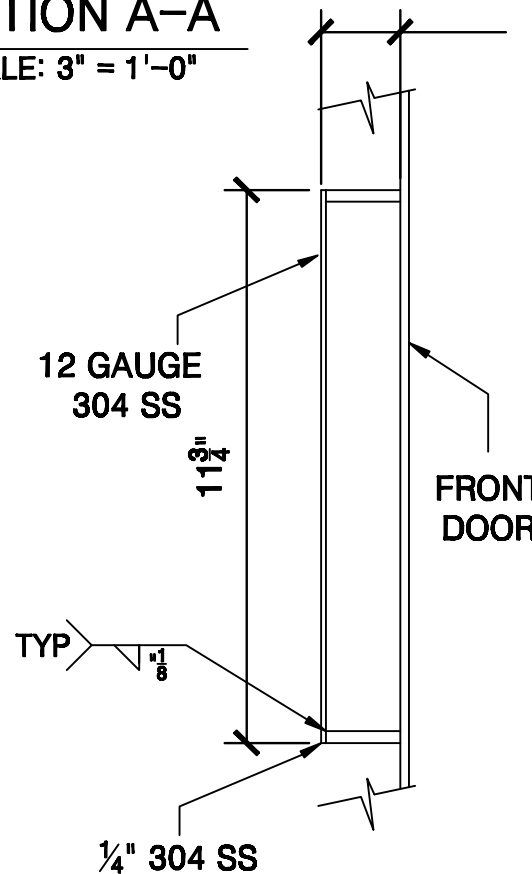
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|-----|------|-------------|-----|------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|------|------------|----------|
| | | | | |  | PORTLAND LOO | | | |
| | | | | | | COLUMN AND BEAM LAYOUT | | | |
| | | | | | | 2550 NW 25th Place • Portland, OR. •97210 Phone: (503) 226-3968 Fax (503) 242-2446 | | | |
| | | | | | | NAME | DATE | SERIAL NO. | DRW. NO. |
| REV | DATE | DESCRIPTION | DRN | APPD | LEO | 4/16/2015 | | \$1.0 | |



SECTION C-C
SCALE: 3" = 1'-0"

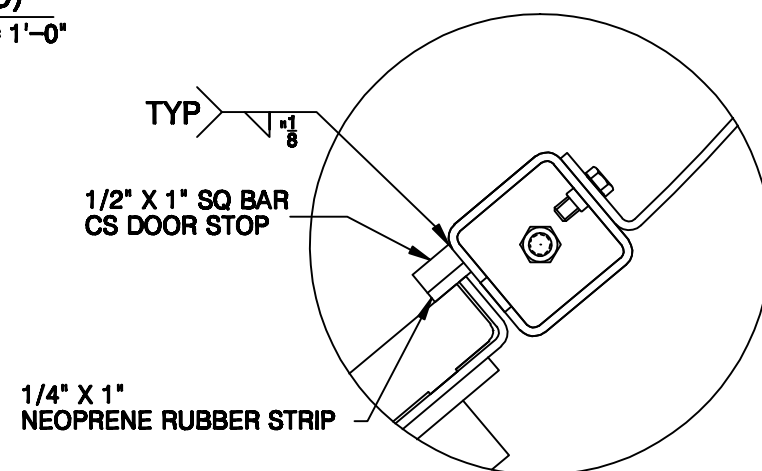


SECTION A-A
SCALE: 3" = 1'-0"



SECTION B-B
SCALE: 3" = 1'-0"

1 RIGHT HAND ENTRY DOOR (STANDARD)
PL 3/16" 304 STAINLESS STEEL SCALE: 3/4" = 1'-0"
(1) REQ'D

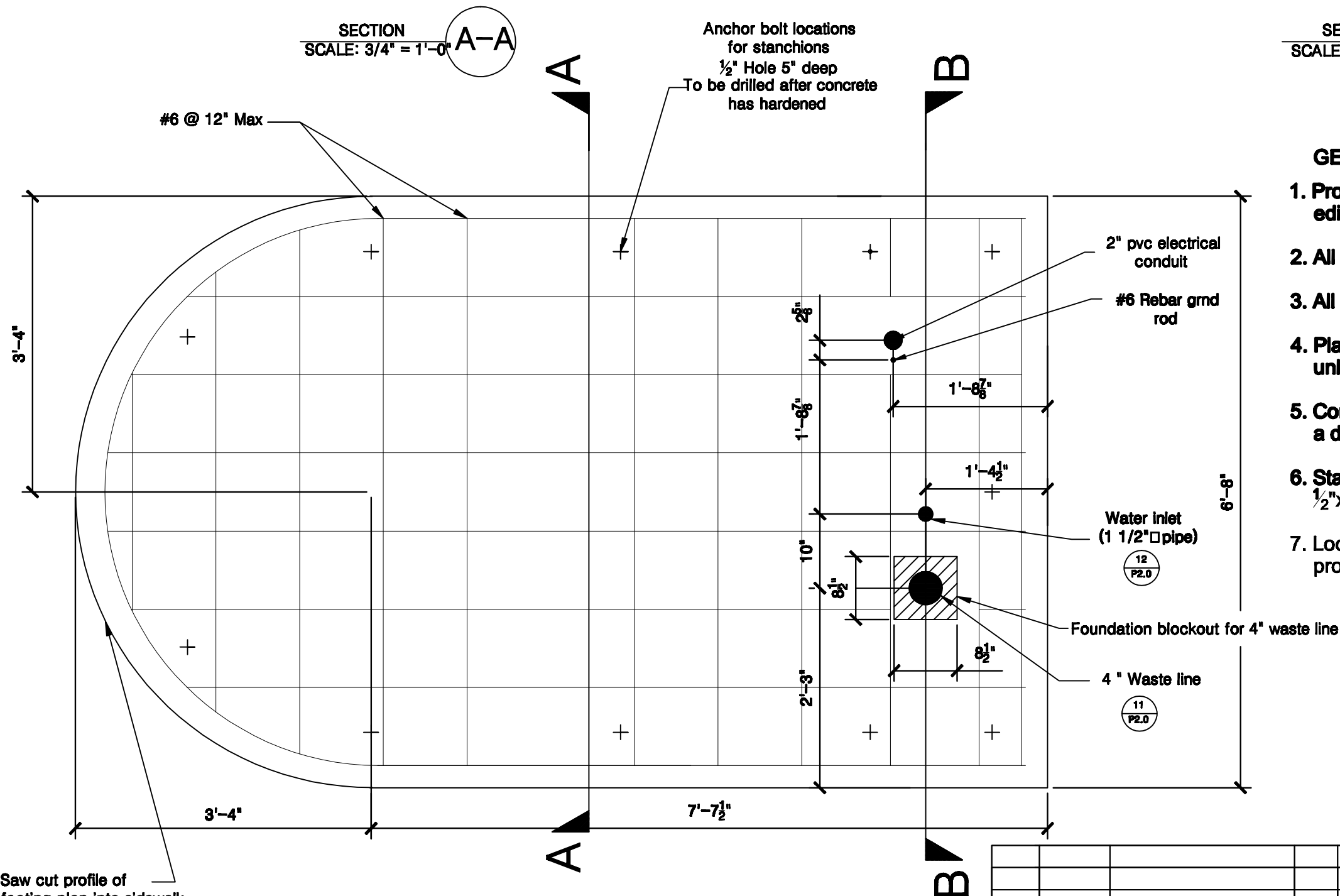
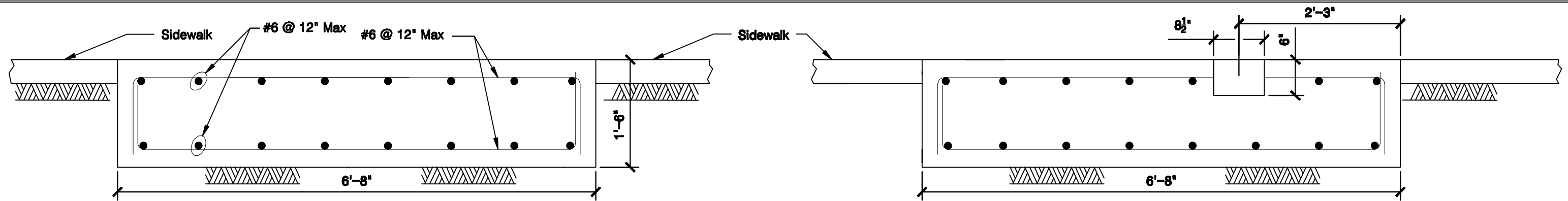


DETAIL 1
SCALE: 3" = 1'-0"

| | | | | | | | | |
|-----|------|-------------|-----|------|--------------|-----------|------------|----------|
| | | | | | PORTLAND LOO | | | |
| | | | | | FRONT DOOR | | | |
| REV | DATE | DESCRIPTION | DRN | APPD | NAME | DATE | SERIAL NO. | DRW. NO. |
| | | | | | LEO | 4/16/2015 | | S2.0 |

MADDEN
FABRICATION

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Phone: (503) 226-3968 Fax (503) 242-2446



GENERAL NOTES:

1. Provide all materials and perform all work according to the current edition of the Specifications of the Authority Having Jurisdiction.
2. All concrete shall be Structural Class 4000.
3. All reinforcing steel shall conform to ASTM A706 or A615 Grade 60.
4. Place bars 3 inches clear of the nearest face of concrete unless shown otherwise.
5. Concrete footing may be poured integrally with 4' sidewalk, providing a deep cut tool joint is located around perimeter of footing.
6. Stanchions section "A-A" / A1.0 to be fastened to the concrete using 1/2"x5" titens. The Loos columns to be fastened the the stanchions.
7. Location of anchor bolts to be located and drilled using template provided before installation by Madden Fabrication.

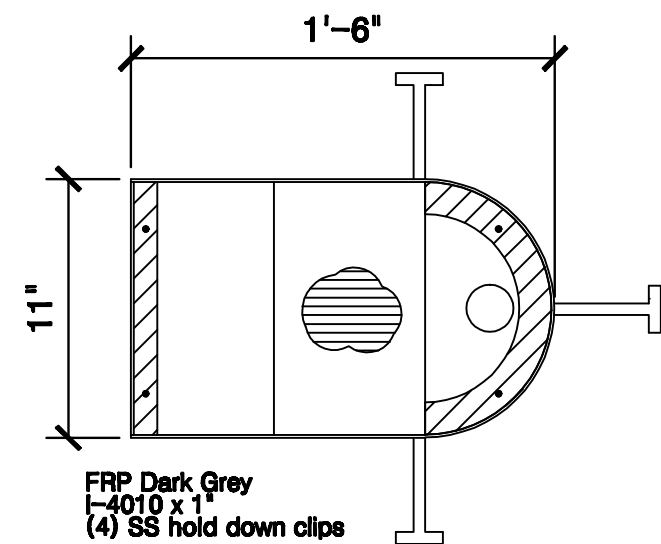
Saw cut profile of footing plan into sidewalk

FOUNDATION & ANCHOR BOLT LOCATIONS

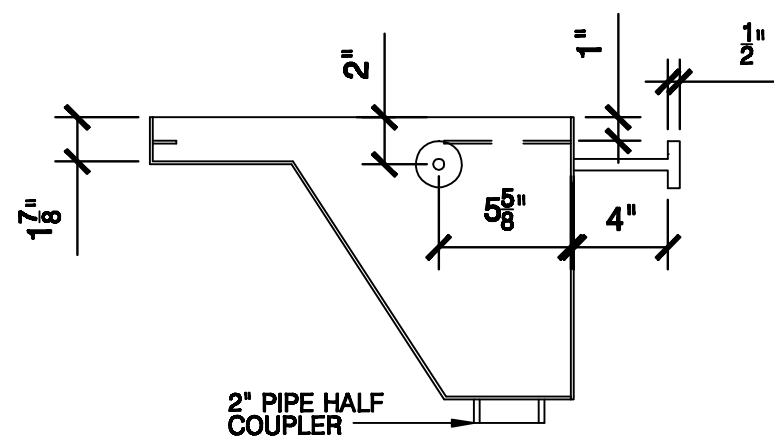
Standard hand wash drain location

SCALE: 3/4" = 1'-0"

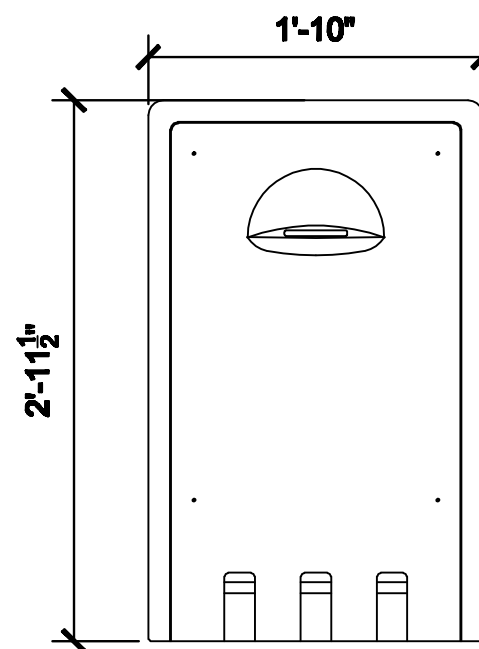
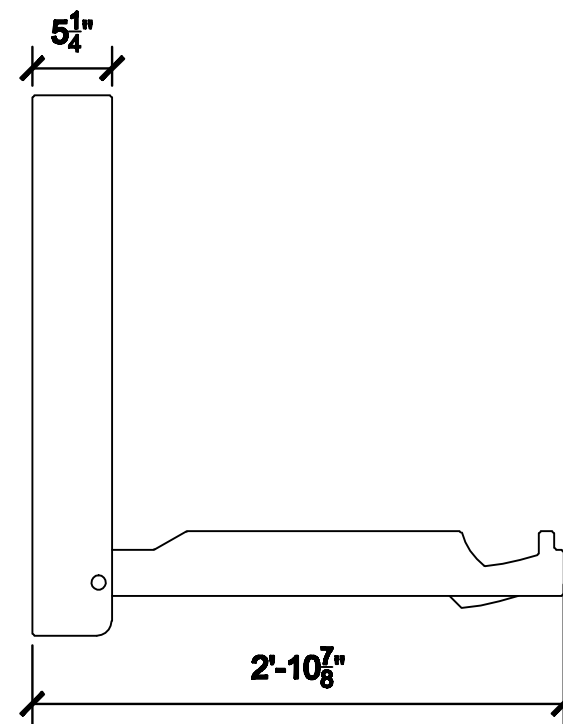
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| | | | | | <div>MADDEN FABRICATION</div> <div>2550 NW 25th Place • Portland, OR. 97210 Phone: (503) 226-3968 Fax (503) 242-2446</div> | PORTLAND LOO | | | |
| | | | | | | FOUNDATION & ANCHOR BOLT LOCATION | | | |
| | | | | | | NAME | DATE | SERIAL NO. | DRW. NO. |
| REV | DATE | DESCRIPTION | DRN | APPD | | LEO | 4/16/2015 | | S3.0 |



PLAN VIEW



5 WASH BASIN
Sheet 12 GA SS
(1) Assembly REQ'D



6 BABY CHANGING TABLE
KOALA KB101-05
(1) REQ'D

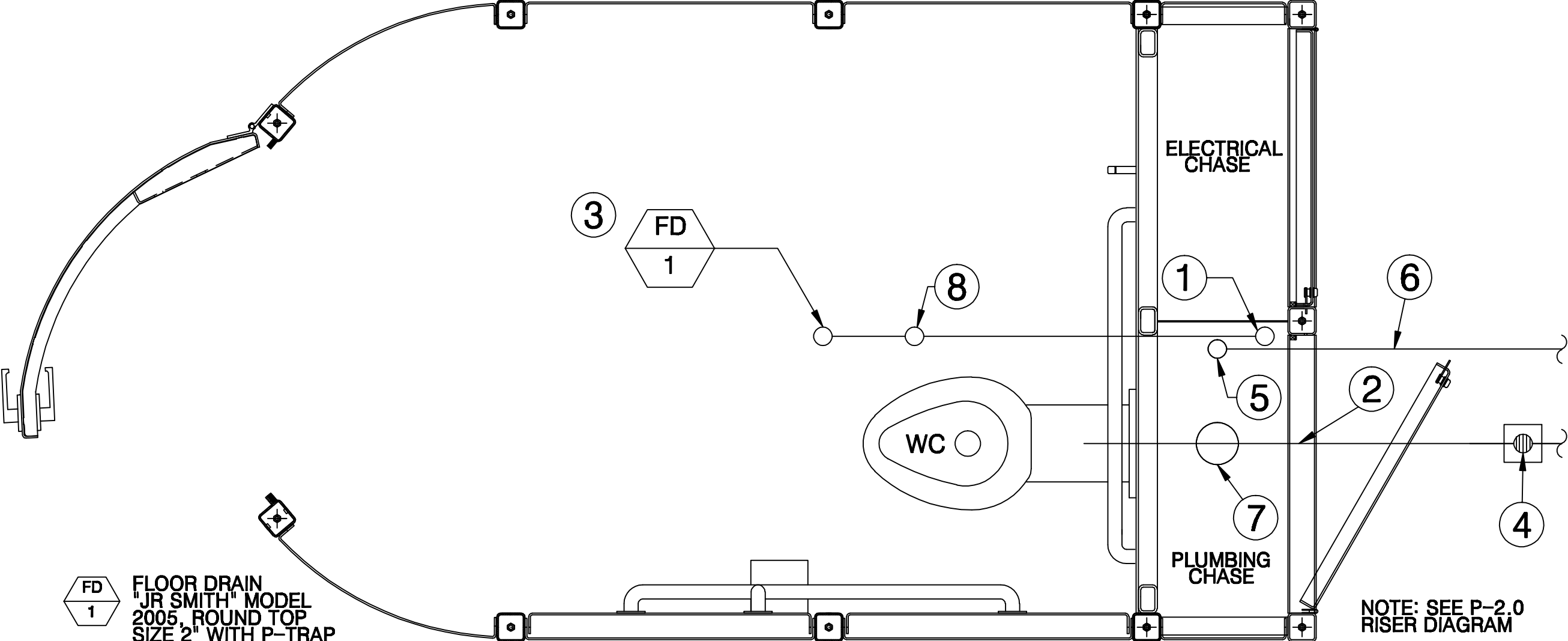
NOTE: TO BE MOUNTED
ON INTERIOR INFILL
PANEL

| | | | | | | | | | |
|-----|------|-------------|-----|-------|-------------------------------------|------------------|-----------|------------|----------|
| | | | | | MADDEN FABRICATION | PORTLAND LOO | | | |
| | | | | | | STANDARD OPTIONS | | | |
| | | | | | | NAME | DATE | SERIAL NO. | DRW. NO. |
| REV | DATE | DESCRIPTION | DRN | APP'D | | LEO | 4/16/2015 | | S4.0 |

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Phone: (503) 226-3968 Fax (503) 242-2446

BILL OF MATERIAL

| ITEM | QTY | DESCRIPTION | MFG. |
|------|-----|-----------------------------------------------------------------------------------|--------------|
| 1 | ONE | 2" VENT PIPE TUBE TO ROOF | VARIOUS |
| 2 | ONE | WASTE PIPING 4" SDR 35 PVC SEWER LINE TO P.O.C. | VARIOUS |
| 3 | ONE | ROUTE CW SUPPLY TO FLOOR DRAIN P-TRAP FROM TRAP PRIMING LOCATED IN PLUMBING CHASE | JAY R. SMITH |
| 4 | ONE | 4" GRADE CLEAN-OUT IN YARD BOX | VARIOUS |
| 5 | ONE | WATER INLET 1-1/2" C.W. SUPPLY SHOWN ON SHEET 7 | VARIOUS |
| 6 | ONE | 1-1/2" C.W. SUPPLY TO SOV SHOWN ON SHEET 7 | VARIOUS |
| 7 | ONE | 4" SEWER LINE CARRIER SHOW ON P2.0 | VARIOUS |
| 8 | ONE | TRAP PRIMER VALVE | PRIME-RIGHT |



FD 1 FLOOR DRAIN "JR SMITH" MODEL 2005, ROUND TOP SIZE 2" WITH P-TRAP AND TRAP PRIMER FITTING

PLUMBING FLOOR PLAN
SCALE: 1" = 1'-0"

| | | | | | | | | |
|--|--|--|--|--|---------------------|-----------|------------|----------|
| | | | | | PORTLAND LOO | | | |
| | | | | | PLUMBING FLOOR PLAN | | | |
| | | | | | NAME | DATE | SERIAL NO. | DRW. NO. |
| | | | | | LEO | 4/16/2015 | | P1.0 |

REV

DATE

DESCRIPTION

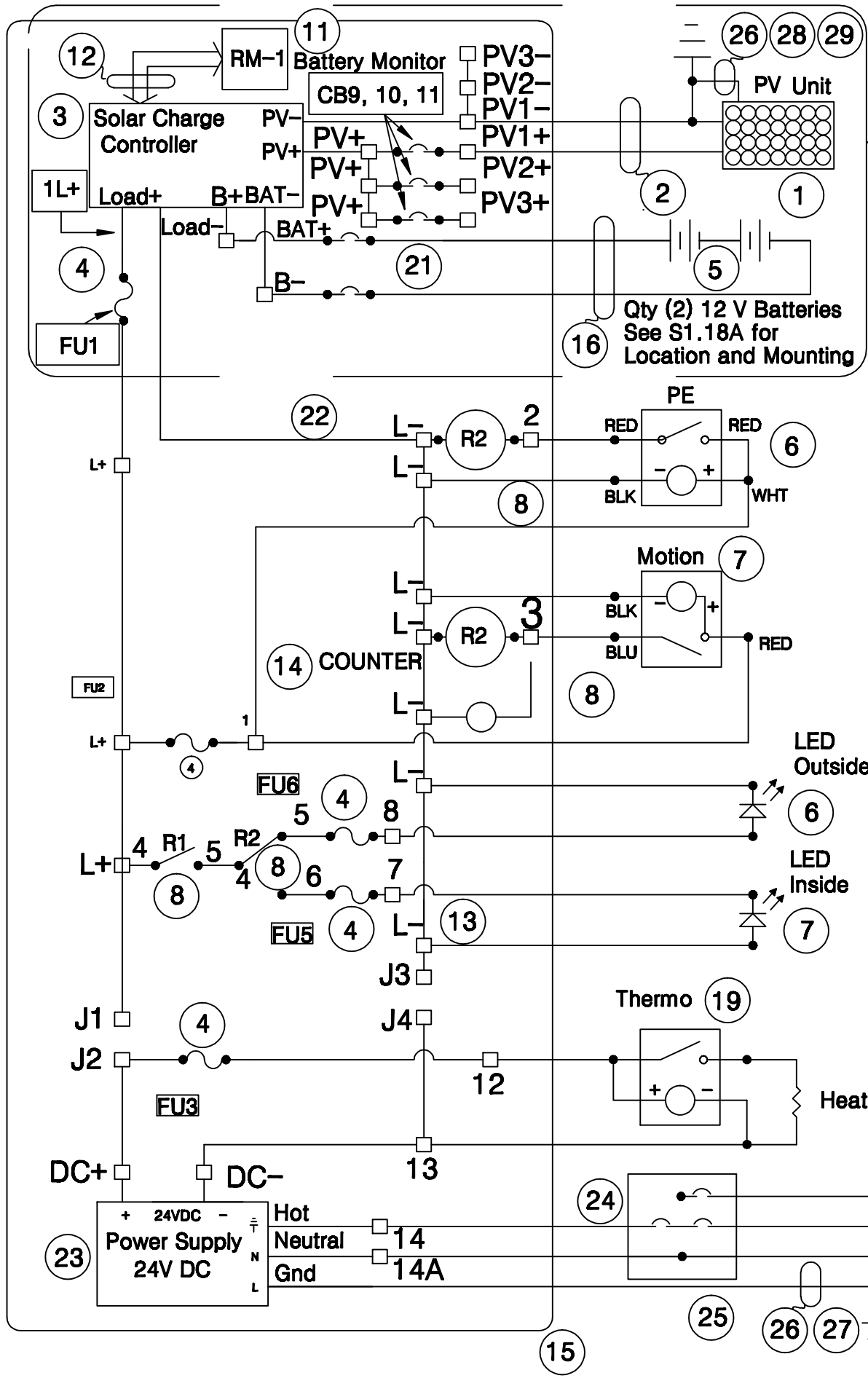
DRN

APPD

MADDEN

FABRICATION

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Phone: (503) 226-3968 Fax (503) 242-2446



1-3 panel solar
Stand alone or backup
power option

FUSE/BREAKER DESCRIPTION

| | |
|------|--------------------|
| FU1 | MAIN LOAD |
| FU2 | PE/MOTION |
| FU3 | HEAT TRACE |
| FU4 | NOT USED |
| FU5 | INSIDE LED LIGHT |
| FU6 | OUTSIDE LED LIGHT |
| CB8 | MAIN 24VDC BREAKER |
| CB9 | PV1 BREAKER |
| CB10 | PV2 BREAKER |
| CB11 | PV3 BREAKER |

TERMINAL DETAIL

| |
|-----|
| SoH |
| SoH |
| SoL |
| SoL |
| L- |
| L- |
| L- |
| L- |
| L- |
| L- |
| L+ |
| L+ |
| 1 |
| 1 |
| 1 |
| 2 |
| 3 |
| 3 |
| 7 |
| 8 |
| 12 |
| 13 |
| 13 |
| 13 |
| 14 |
| 14A |
| J1 |
| J2 |
| J3 |
| J4 |

Jumper Power Configuration

| | J1 to J2 | J3 to J4 |
|--------------------------------------|----------|----------|
| Solar Powered only (3 panels) | Yes | Yes |
| AC Power Only | Yes | Yes |
| Hybrid AC/Solar Powered (1-2 panels) | No | No |

BILL OF MATERIAL

| ITEM | QTY | DESCRIPTION | MFG. |
|------|-------|---------------------------------------------------|--------------------|
| 1 | 1 - 3 | Grape Solar 160W PV Module (or equal) | GRAPE SOLAR |
| 2 | 1 - 3 | MC 4 Cable 30' #10AWG | RLH INDUSTRIES |
| 3 | ONE | SS-MPPT-15L SOLAR CHARGE CONTROLLER | MORNINGSTAR CORP |
| 4 | 5-7 | 6A-600V Fuse LPCC-6 | Buss |
| 5 | TWO | MK 8A24 LTP Sealed AGM Battery | MK Battery |
| 6 | ONE | 24V Photocell EM-24A2 | Watt Stopper |
| 7 | ONE | Occupancy Sensor WPIR-24 | Watt Stopper |
| 8 | TWO | 24V DC relay RH1B-U-DC24V | IDEC |
| 9 | ONE | 24V LED Light Rope, White 3W/Ft x 4ft | Flexlight |
| 10 | TWO | 20", 24V,5W LED Blue light - SALF-QU | Outwater |
| 11 | ONE | Battery system monitor RM-1 | Morningstar |
| 12 | ONE | RJ-11 Meter Cable | VARIOUS |
| 13 | ONE | Ground Bus 44CONN-AL | ITE |
| 14 | ONE | V8-4816 6 DIGIT COUNTER | REDINGTON COUNTERS |
| 15 | ONE | NEMA1 Enclosure 20"x20" 20206-1 | BENC |
| 16 | ONE | 6ga Battery Harness cable | ALLBATTERY |
| 17 | Lot | 14ga Cu wire THHN-14-19STR-CU | VARIOUS |
| 18 | Lot | 10ga Cu wire Varies | VARIOUS |
| 19 | ONE | Solstat 2-20 Solid State Thermostat | ENGENTY |
| 20 | ONE | Heat trace - 10 ft, 24V, 3W/ft Kompensator | HEATLINE |
| 21 | THREE | 15 Amp, 150V DC Breaker | ALTEC CORP |
| 22 | ONE | 63 Amp, 125V DC Breaker | ALTEC CORP |
| 23 | ONE | Sola Power Supply SDN-10-24-100C | Sola Inc |
| 24 | ONE | 110V - 15amp Breaker QO120-15A | SQUARE D |
| 25 | ONE | LOAD CENTER, 70A QO24L70S 2 BRKR | SQUARE D |
| 26 | ONE | Approved UFER ground connection to rebar Sht S2.0 | BY OTHERS |
| 27 | ONE | 4ga Cu wire insulated | VARIOUS |
| 28 | LOT | 6ga Cu wire insulated | VARIOUS |
| 29 | 1-3 | 6ga crimp eyelet and mechanical fastener to PV | VARIOUS |

Items not shown on schematic

| | | | |
|---|-------|-----------------------------------|-----------------|
| A | Lot | Din Rail 2M - 2 ft | WEIDMULLER |
| B | EIGHT | Modular Fuse Holder CHCC1DI | BUSS |
| C | TWO | Relay Pin Base 70-459 | MAGNECRAFT |
| D | 20 | Terminal splice unit | WEIDMULLER |
| E | TWO | 1-5/8" x 1-5/8" x 69" B22SH strut | B-Line or Equal |
| F | FOUR | 3/8" Spring Nut N228 | B-Line or Equal |
| G | FOUR | 10-1/2" Shelf Bracket S-205 | B-Line or Equal |
| H | ONE | NEMA1 Panel 20"x20" AW2020 | BENC |



PORTLAND LOO

ELECTRICAL SCHEMATIC

| REV | DATE | DESCRIPTION | DRN | APPD | NAME | DATE | SERIAL NO. | DRW. NO. |
|-----|------|-------------|-----|------|------|-----------|------------|----------|
| | | | | | LEO | 4/16/2015 | | E1.0 |

2550 NW 25th Place • Portland, OR 97210
Phone: (503) 226-3968 Fax (503) 242-2446

1. Terms of Payment. 30% at time of order, 50% at time of shipment and remaining 20% Net 30 after receipt by customer.

a. Deviation from Payment. Payment Time is of the essence with respect to Buyer's payment of the purchase price, and timely payment shall not be delayed or excused for any reason. Payment agreement between Buyers and other parties, or failure by other parties to pay Buyer or perform any agreement with Buyer shall not result in delay of payment to Madden Fabrication. Madden Fabrication does not accept partial payments, any offsets, credit card merchant fees and/or retainage against the Purchase Order price. Should Buyer not act according to the terms of payment for any reason, the terms will be revoked and any remaining goods or services not yet delivered are subject to pre-payment terms whereby payment, in full is due 10 days prior to delivery. Any amounts not paid when due shall bear interest at the rate of 18 percent per annum or the highest lawful rate applicable, if such rate is less than 18 percent, from the date payment was due. The Madden Fabrication Warranty becomes null and void when payment is more than 5 business days past due.

b. Tax. Unless otherwise indicated on the Madden Fabrication quote or purchase order, any sales, use, consumption, value added or other goods/services based tax imposed by a state, county/local or other agency with jurisdictional authority is excluded from this order. Buyer is responsible for remitting any taxes that are applicable.

c. Fees. Madden Fabrication is not responsible for any fees and or expenses related to licensing, inspections and engineering as required by individual states or local governments.

2. Change Orders. All change orders must be signed by the buyer. Prices stated herein are valid for 1 month from the purchase order date, or two weeks from the purchase order date if unsigned, at which time Madden Fabrication may adjust its price if cost factors warrant. Additionally, any modifications to Madden Fabrication Portland Loo quote to customer, prior to formal approval, may result in a price adjustment. Any modification, to Madden Fabrication Portland Loo quote to customer, after formal approval, requested or required by Buyer for any reason shall be performed by Madden Fabrication at Buyer's expense, as follows: (i) Buyer shall submit a written description of the modifications to Madden Fabrication (ii) within 14 days of receipt of Buyer's description, Madden Fabrication shall provide to Buyer a written price quote for the modifications requested; (iii) Buyer shall pay the Change Order Invoice to Madden Fabrication in accordance with payment terms.

3. Terms of Delivery. Madden Fabrication will not be liable for any delay in the performance of orders or contracts, or in the delivery or shipment of goods, or for a damages suffered by the buyer by reason of such delay, when such delay is beyond Madden Fabrication control. All goods are shipped F.O.B. Portland, Oregon, which means that the risk of loss or damage to the goods and risk of delays in transit passes to the Buyer when the goods are duly delivered to the carrier at Portland, Oregon. Madden Fabrication has no control over arrival time of shipment, and shall not be responsible for delays in shipments once the goods leave Madden Fabrication plant.

a. Procedures for Handling Products. Madden Fabrication suggested procedures for handling products are as follows:

- i. All Madden Fabrication materials, whether palletized or separated from a pallet, must be handled per the instructions detailed in the Portland Loo Installation Procedures submitted with respect to the specified model of Portland Loo restroom facility or component.
- ii. All material received from, but not manufactured by Madden Fabrication must be handled per the specific handling instructions of the manufacturer of the material.
- iii. Proper handling equipment its supply and operation are strictly the responsibility of the Buyer.

4. **Description of Products and Warranty.** The Portland Loo and all its associated components shall be warranted against defects in materials and workmanship for a period for not less than one year from date of final acceptance.
5. **Time of Shipment and Delivery.** Unless otherwise specified on the purchase order, Madden Fabrication may ship goods pursuant to an order at any time after the goods are completed and ready for shipment. Further, unless payment has been made in advance, if a carrier holding a Madden Fabrication shipment order by a Buyer is ready to deliver the goods to the buyer, the Buyer agrees to accept the goods at the carrier's earliest possible delivery date and time.
6. **Store & Invoice.** If Buyer delays shipment, regardless of the reason for delay, Madden Fabrication is permitted to invoice and the Buyer accepts the obligation to pay Madden Fabrication under its agreed upon payment terms, using the date the order was ready for shipment as the invoice date. Once the order is invoiced, the materials shall become property of the agency/contractor. Further Madden Fabrication may at its sole discretion invoice the Buyer for a **minimum** of \$450 per month of on-site storage per Loo. Deliveries that are delayed by the Buyer may be canceled by Madden Fabrication and the goods returned to Madden Fabrication at its discretion. Any costs or difficulties arising from the Buyer's act in delaying receipt of Madden Fabrication's shipments are the complete responsibility of the Buyer. The Buyer agrees to pay for the complete shipment cost if Madden Fabrication elects to cause the goods to be returned to Madden Fabrication or delivered to another Buyer.
7. **Cancellation.** Mutual acceptance of the purchase order indicates notice to Madden Fabrication to proceed with the provisions of design service required in completing its fabrication of Portland Loo per this purchase order agreement. Should Buyer cancel its purchase order prior to granting Notice to Proceed in production of the Portland Loo, Buyer shall pay the design fee stated in the purchase order as compensation for design services rendered. Madden Fabrication requires the Buyer to indicate approval of its supply offering by executing the signature page of the Purchase order agreement document and Notice to Proceed. Upon granting Madden Fabrication approval of this purchase order agreement and Notice to Proceed, Buyer accepts responsibility for all costs incurred by Madden Fabrication in producing the Portland Loo for Buyer.

8. Special Orders. All products sold by Madden Fabrication are custom to each particular job. Payments toward any product, once made are non-refundable.

9. Contract Documents. Together with the Purchase Order, the following constitute the “Contract Documents” and the entire contract between the parties, either written or oral: (i) Approved “final” Madden Fabrication purchase order agreement and (ii) Change Order form (if applicable).

10. Attorney Fees. If Buyer fails to pay any amount when due, and Madden Fabrication incurs any expenses in pursuant of collection, Buyer agrees to pay the reasonable attorney fees (whether or not litigation is commenced) and other costs of such collection.

- a. In any dispute involving the interpretation or enforcement of this agreement or involving issues related to bankruptcy (whether or not such issues related to the terms of this agreement), the prevailing party shall be entitled to recover from the non-prevailing party reasonable attorney fees, paralegal fees, costs disbursements, and other expense incurred by the prevailing party in the dispute, including those arising before and at any trial, arbitration, bankruptcy, or other proceeding, and in any appeal or review thereof. In addition, the amount recoverable by the prevailing party shall include an amount estimated as the fees, costs, disbursement, and other expenses that will be reasonably incurred in collecting monetary judgment or award, or otherwise enforcing any order, judgment, award, or decree entered in the proceeding
- b. This agreement shall be interpreted and enforced according to the laws of the State of Oregon. The parties irrevocably submit and consent to the jurisdiction of the Multnomah County circuit courts of the State of Oregon and the Oregon Federal District Court, with respect to litigation regarding any dispute, claim or other matter related to this contract.

11. Intellectual Property. Madden Fabrication makes and sells the Portland Loo under license from the City of Portland, Oregon. Aside from implied licenses sufficient to install and maintain the Portland Loo purchased by the Buyer under this Agreement, the Buyer’s purchase of the Portland Loo shall not transfer any intellectual property rights pertaining to the Portland Loo, including but not limited to patent, trademark, and copyright rights in the design of the Portland Loo or in the name PORTLAND LOO. All such intellectual property rights shall remain owned by the City of Portland, subject to any licenses or assignments granted or executed by the City of Portland. The Buyer shall have no right to make copies of the Portland Loo, or to sublicense or otherwise commercially use any intellectual property associated with the Portland Loo.

12. Controlling Provisions. The terms and conditions of this Purchase Order shall supersede and control any provisions, terms and conditions contained on any confirmation order, Purchase Order, or other writing the Buyer may give or receive, and the rights of the parties shall be governed exclusively by the provisions, terms and conditions thereof.

13. Binding Effect. This Purchase Order agreement shall be effective and in force only when signed by Buyer and Madden Fabrication. Madden Fabrication must consent to any assignment of this Purchase Order agreement in writing. Subject to any restrictions upon assignment, this Purchase Order agreement shall be binding on and inure to the benefit of the heirs, legal representative, successors, and assigns of the parties.

14. Notice. All notices required by this Purchase Order shall be in writing addressed to the party to whom the notice is directed at the address of that party set forth in this Purchase Order agreement and shall be deemed to have been given for all purposes upon receipt when personally delivered; one day after being sent, when sent by recognized overnight courier service; three days after deposit in United States Mail, postage prepaid, registered or certified mail; or on the date transmitted and received by facsimile. Any party may designate a different mailing address or a different person for all future notices by notice given in accordance with this paragraph.

15. Modification. No modification of this Purchase Order agreement shall be valid unless it is in writing and is signed by all of the parties.

16. Interpretation. The paragraph headings are for the convenience of the reader only and are not intended to act as a limitation of the scope or meaning of the paragraphs themselves. This agreement shall not be construed against the drafting party.

17. Severability. The invalidity of any terms or provisions of the agreement shall not affect the validity of any other provisions.

18. Waiver. Waiver of any part of strict performance of any provisions of this Purchase Order agreement shall not be a waiver of or prejudice any party's right to require strict performance of the same provision in the future or any other provision.

19. Counterparts. This Purchase Order agreement may be executed in multiple counterparts, each of which shall constitute one agreement, even though all parties do not sign the same counterpart.

X _____

Buyer's Authorized Representative

X ____/ ____ / ____

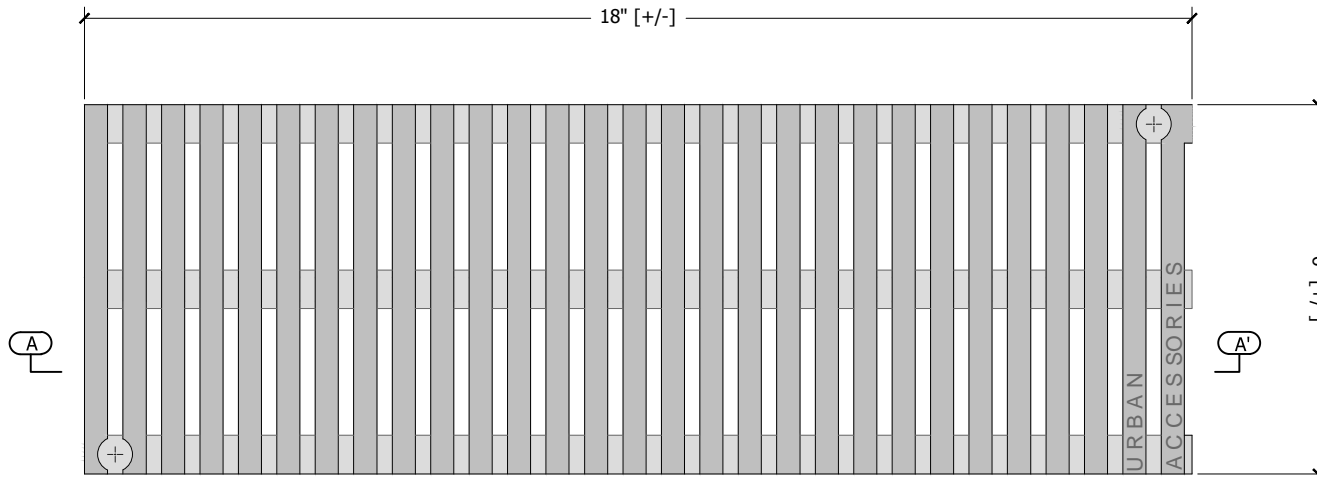
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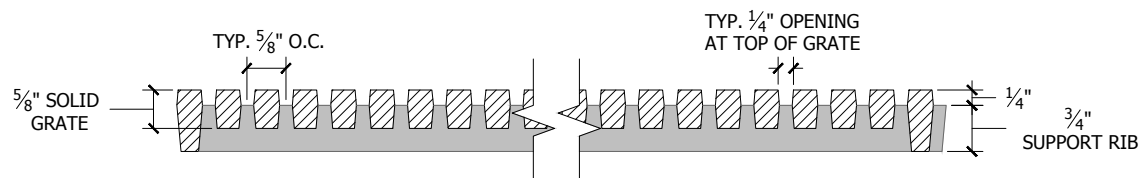
Portland Loo Representative

X ____/ ____ / ____

Date



Plan



Section A-A'

SPECIFICATIONS

- Material will be high quality 100% recycled grey iron; ASTM A48 class 35b or better; hardness 170-223 brinnell (unless specified otherwise; see below).

Material:

- ☐ Grey iron ASTM A48 (standard)
- ☐ Aluminum, ASTM B26
- ☐ Ductile iron, (required for all load ratings higher than pedestrian) ASTM A536 class 65-45-12.
- ☐ Nickel bronze (ASTM B30)
- ☐ Bronze (ASTM B26)

- Finish will be natural patina of raw iron (unless specified otherwise; see below).

Finish:

- ☐ Raw (standard)
- ☐ Rust conditioner
- ☐ Polyester Powder Coat*
- ☐ Liquid Coat (wet paint)*
- Color:
 - *Please specify standard UA color or mfr. name and color code.
- ☐ Brush (bronze/nickel/aluminum only)
- ☐ Polish (bronze/nickel/aluminum only)
- ☐ Galvanized (grey iron and ductile iron only)
- ☐ Other:

- Dimensions are nominal.

Notes

- 1) Grate is 1" thick at edge.
- 2) No openings greater than $\frac{1}{4}$ ", in conformance with ADA Accessibility Guidelines.
- 3) By default, the last grate in a trench drain will be sheared to meet a drain length specified at the time of order. Alternately, the trench drain length may be adjusted to the nearest whole grate (tolerances in the grate size WILL compound across the overall run). Please provide instructions in the comments section below.
- 4) 36.5 sq. in. open area per grate.
- 5) Grate weighs 14.5 lbs.

Comments:

Trench Grate

6" x 18" Jamsion

Page 1 of 1 Date: 2/26/13

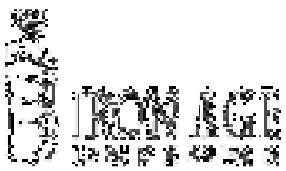
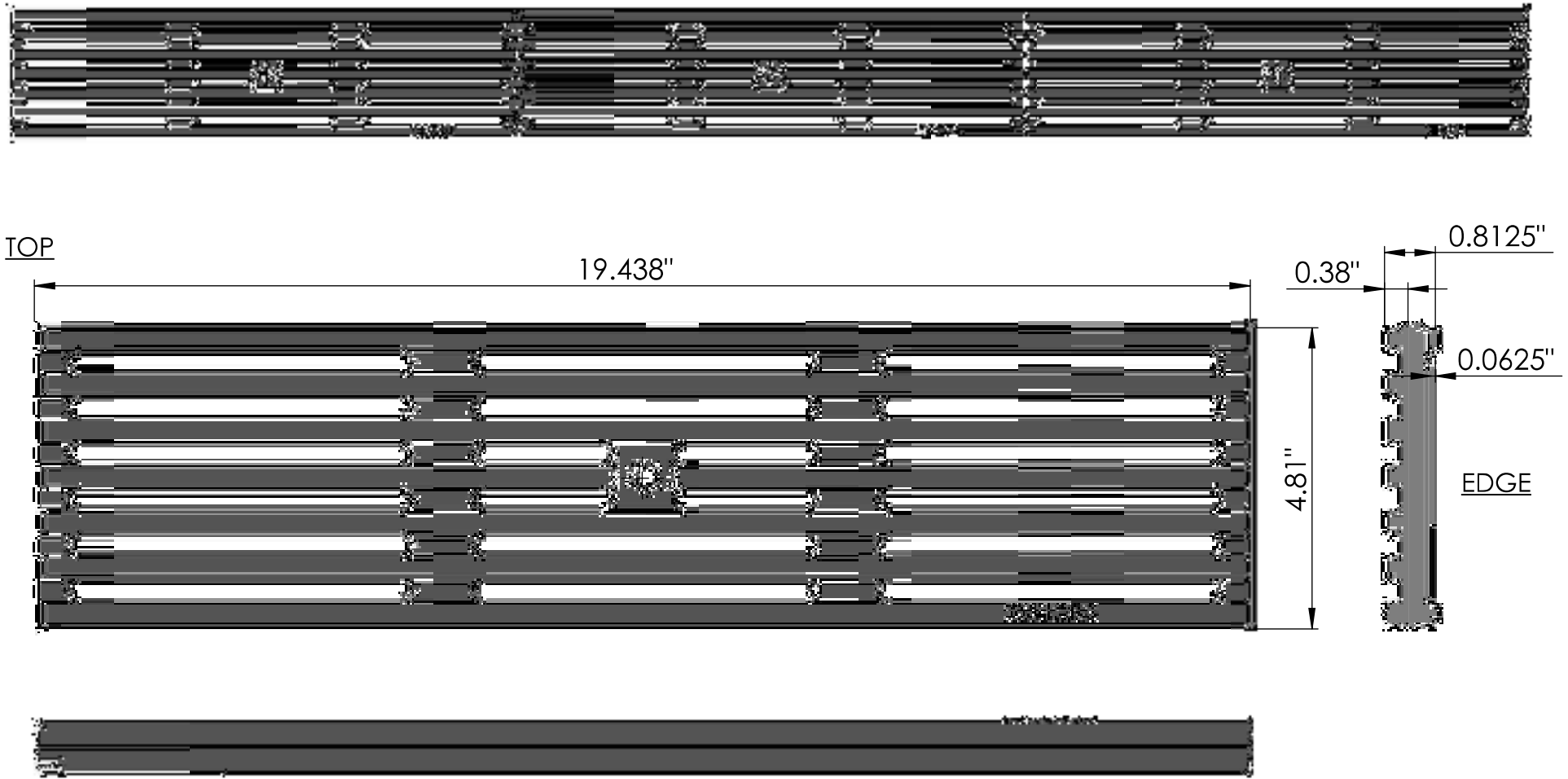


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Burien, WA 98166 FAX 206.257.0318
www.ironagegrates.com

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JOB NO.

Drawn by: JH

DWG. NO. QUE.I.5x20_Alum

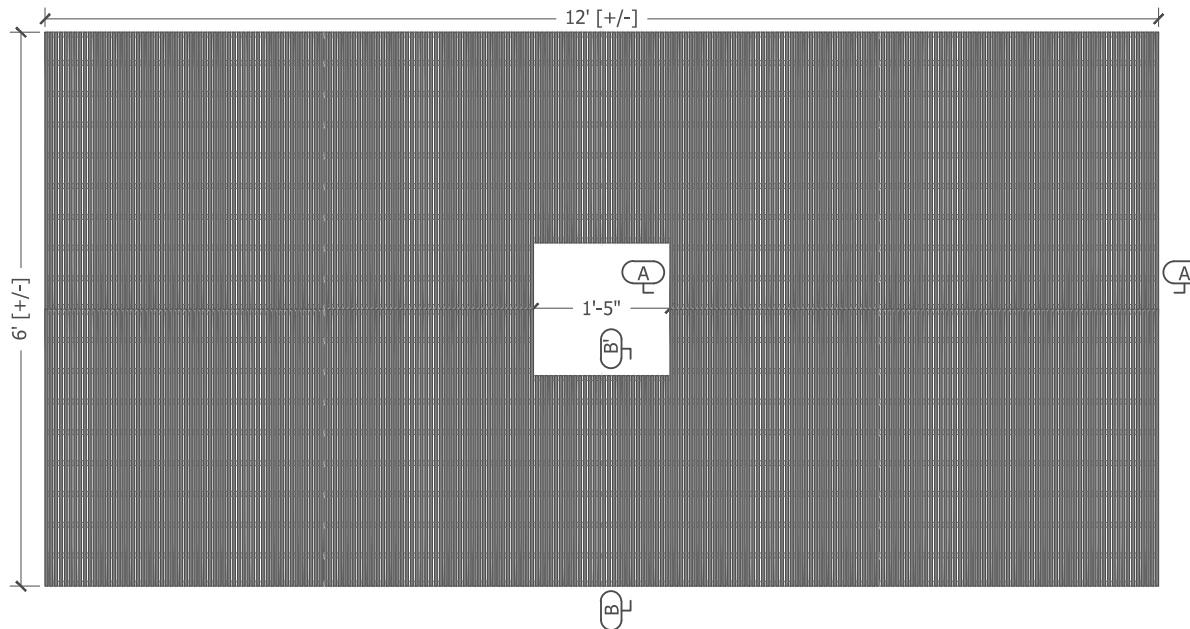
Date: 12/28/12

Scale: NTS

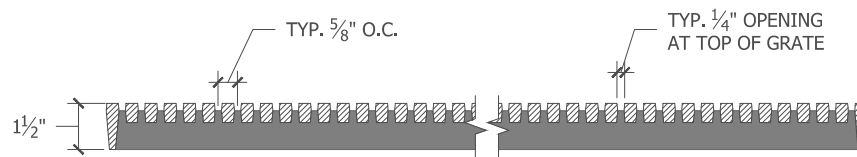
NOTES:

1. Material: cast ductile iron
2. Natural finish
3. Edge thickness: 7/8"
4. No openings greater than 1/4"
5. Weight approx. <12lbs
6. Fits drain bodies manufactured by:
ABT® PolyDrain®, ACO™ K100/K100S/KS100, MEA® 1000 Series
7. Due to casting inconsistencies all dimensions are nominal

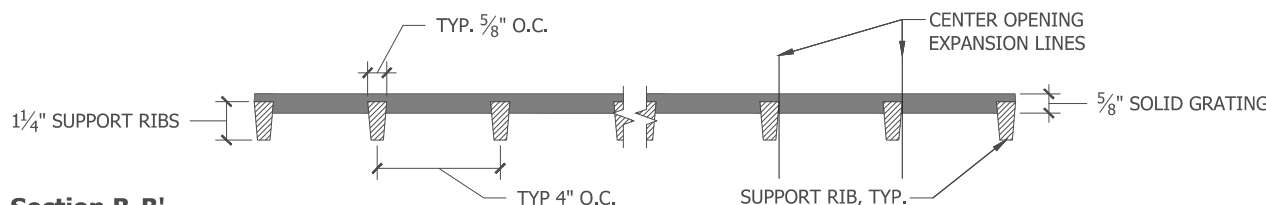
© 2012 Iron Age Designs



Plan



Section A-A'



Section B-B'

SPECIFICATIONS

- Material will be high quality 100% recycled grey iron; ASTM A48 class 35b or better; hardness 170-223 brinnell (unless specified otherwise; see below).

Material:

- ☐ Grey iron ASTM A48 (standard)
- ☐ Aluminum, ASTM B26
- ☒ Ductile iron, (required for all load ratings higher than pedestrian) ASTM A536 class 65-45-12.
- ☐ Nickel bronze (ASTM B30)
- ☐ Bronze (ASTM B26)

- Finish will be natural patina of raw iron (unless specified otherwise; see below).

Finish:

- ☒ Raw (standard)
- ☐ Rust conditioner
- ☐ Polyester Powder Coat*
- ☐ Liquid Coat (wet paint)*
- Color:
 - *Please specify standard UA color or mfr. name and color code.
- ☐ Brush (bronze/nickel/aluminum only)
- ☐ Polish (bronze/nickel/aluminum only)
- ☐ Galvanized (grey iron and ductile iron only)
- ☐ Other:

- **Dimensions are nominal.**

Notes

- 1) Cast in eight pieces.
- 2) Grate is 1- 1/2" thick at edge.
- 3) No openings greater than 5/16", in conformance with ADA Accessibility Guidelines.

Comments:

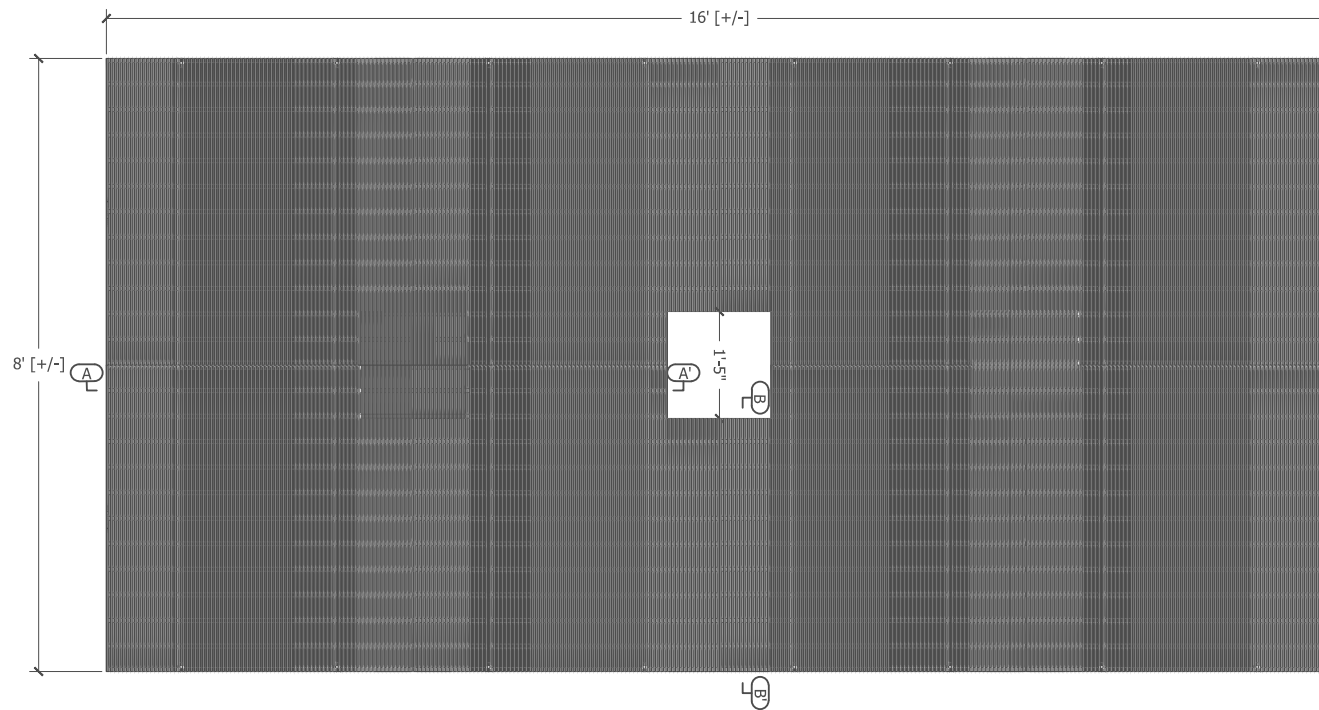
Tree Grate

6' x 12' Jamison
PN: Burlington

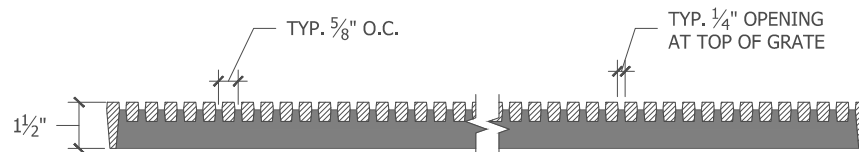
Page 1 of 4 Date: 3/29/18



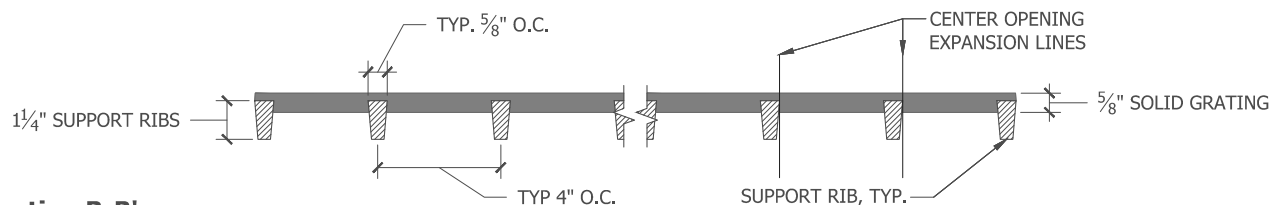
465 E. FIFTEENTH ST. sales@urbanaccessories.com
TACOMA, WA 98421 www.urbanaccessories.com
(877) 487-0488



Plan



Section A-A'



Section B-B'

SPECIFICATIONS

- Material will be high quality 100% grey iron; ASTM A48 class 35b or better; hardness 170-223 brinnell (unless specified otherwise; see below).

Material:

- ☐ Grey iron ASTM A48 (standard)
- ☐ Aluminum, ASTM B26
- ☒ Ductile iron, (required for all load ratings higher than pedestrian) ASTM A536 class 65-45-12.
- ☐ Nickel bronze (ASTM B30)
- ☐ Bronze (ASTM B26)

- Finish will be natural patina of raw steel (unless specified otherwise; see below).

Finish:

- ☒ Raw (standard)
- ☐ Rust Conditioner*
- ☐ Liquid Coat (wet paint)*
- Color:
 - *Please specify standard UC color or mfr. name and color code.
- ☐ Brush (bronze/nickel/aluminum only)
- ☐ Polish (bronze/nickel/aluminum only)
- ☐ Galvanized (grey iron and ductile iron only)
- ☐ Other:

- Dimensions are nominal.

Notes

- 1) Cast in eight pieces.
- 2) Grate is 1- 1/2" thick at edge.
- 3) No openings greater than 5/16", in conformance with ADA Accessibility Guidelines.

Comments:

Tree Grate

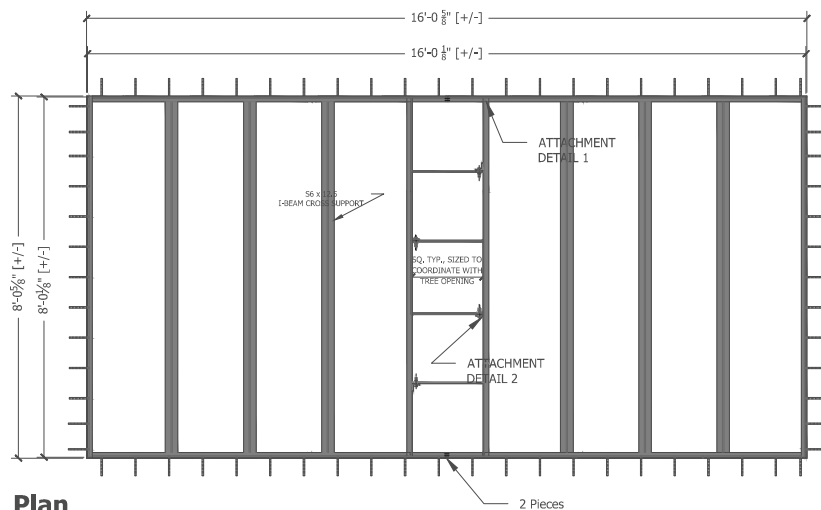
8' x 16' Jamison
PN: Burlington

Page 2 of 4 Date: 3/29/18

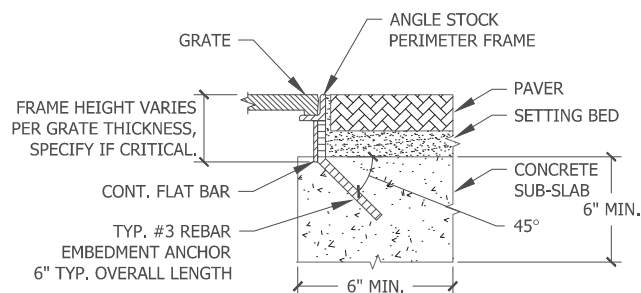


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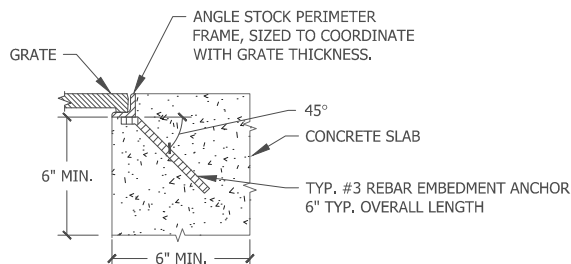




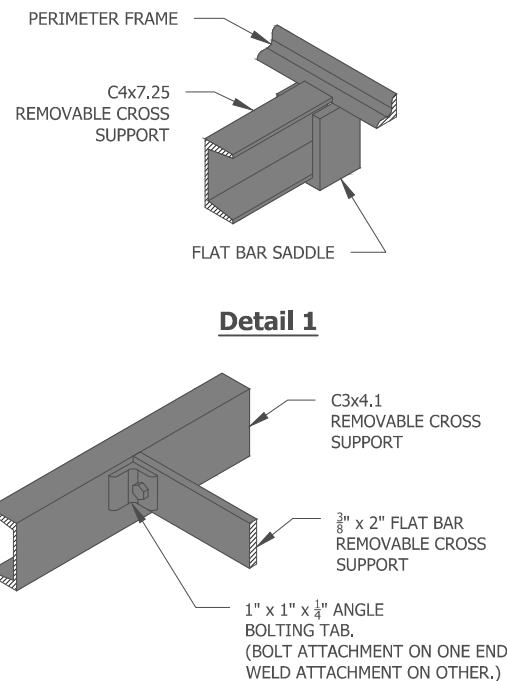
Plan



"P" Elevation

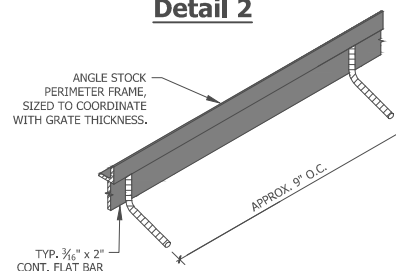


"S" Elevation

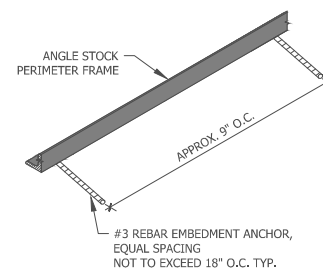


Detail 1

Detail 2



P Isometric



S Isometric

SPECIFICATIONS

- Frames are constructed of mild steel ASTM A36 (unless specified otherwise; see below).

Material:

- ✗ Mild Steel ASTM A36 (standard)
- Stainless Steel grade 304L
- Architectural Bronze, ASTM B455
- Structural Aluminum, ASTM B221

- Finish will be natural patina of raw steel (unless specified otherwise; see below).

Finish:

- ✗ Raw (standard)
- Polyester Powder Coat*
- Liquid Coat (wet paint)*
- Color:
 - *Please specify standard UA color or mfr. name and color code.
- Galvanized
- Other:

- Frame is load rated for pedestrian traffic only (unless specified otherwise; see below).

Load Classifications:

- Pedestrian (standard)
- Light Vehicular
- ✗ H20/HS20
- (Additional steel support may be added for optional load classes. Please contact UA for revised cut sheet, as necessary.)

- Typical 1/8" horizontal gap between grate and frame. All visible welds to be ground smooth on outside edges. Frames will be true to square or diameter. Top of grate flush with grade of surrounding topping material (paver, concrete slab, etc.).

- Dimensions are nominal.

Comments: I-Beams are Welded

Tree Grate Frame

8' x 16' Type Combo "S"/"P"
PN: Burlington

Page: 4 of 4 Date: 3/30/18



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Center Opening Expansion Instructions

- Locate appropriate knock out ring location.
- With circular grinder, score the top and bottom of the casting at least 1/4 through the total thickness in all locations required for center expansion.
- Gently tap the portion of the grate you wish to remove until grate breaks at the score locations.
- After center is removed, grind the inside face the tree grate smooth to remove any excess metal.

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Tree Grate and installation frames.

1.2 SUBMITTALS

- A. Contractor shall submit ____ set(s) of drawings of tree grates and frames for review by architect prior to purchase and installation.
- B. Contractor submittal shall include full scale proof of "Historic Route - Solana Beach" emblem.

1.3 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Minimum 25 years tree grate manufacturing experience.
 - a. Castings will be squared and flat, free of burrs, slag, air pockets, blow holes, flashing and grinding or welding on exposed surfaces. Excessive warping or shrinkage is not acceptable.
 - b. All visible welds on installation frames to be ground smooth. Frames will be true to specified diameter.
- B. Installer qualifications: 2 years minimum experience installing tree grates and support frames.

1.4 DELIVERY, STORAGE, AND HANDLING

- A. Inspect material immediately upon delivery, noting on delivery receipt all damage and/or discrepancy between delivered material and packing slip
- B. Store product in manufacturer's packaging until ready to install.

1.5 WARRANTY

- A. Tree grates and frames shall be warranted by the Manufacture against defects in materials and workmanship for a minimum of one (1) years

PART 2 PRODUCTS

2.1 TREE GRATES AND FRAMES:

- A. Manufacturer: Tree Grates and Frames shall be as supplied by Urban Accessories, Inc., 465 East Fifteenth Street, Tacoma, WA 98421 - PH: (253) 572-1112 or sales@urbanaccessories.com.
- B. Tree Grates shall be: _____ [Style and Size], as per drawings.

- a. Tree Grate material shall be high quality, 100% recycled, cast grey iron, per ASTM A48 class 35b or better; hardness 170-223 brinnell. [Other Options Available]
 - b. Finish on Tree Grates shall be Raw Natural Finish. [Other Options Available]
- C. Tree Grate Frames shall be Type "S" Frames, for embedded installation into new concrete surround.
 - a. Tree Grate Frame material shall be mild steel angle iron and other shapes as necessary, per ASTM A36
 - b. Finish on Tree Grate Frames shall Raw Natural Finish

PART 3 EXECUTION

3.1 EXAMINATION

- A. Do not begin installation until site is properly prepared.
- B. If substrate preparation is the responsibility of another trade, please coordinate with and notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPERATION

- A. Clean surfaces thoroughly prior to installation
- B. Prepare surface as needed to perform installation per manufacturer's recommendation.

3.3 INSTALLATION

- A. Install tree grates in relation to adjacent paving surface with uniformity of appearance, in locations as indicated on plans.
- B. Install tree grate frames by incorporating them into the tree pit forming material, taking care to insure that the frame is on an FLAT PLANE, and sufficient bracing is in place to prevent frame deformation during concrete pouring and curing.
- C. Clean concrete debris from tree grate frame.
- D. Install tree grate, grinding leveling pads and shimming as needed to hold tree grates level and prevent rocking. Gap between grate and frame in finished installation shall not exceed 1/8" on all sides.

END OF SECTION

SPECIFICATIONS

- Cast components will be of 100% recycled aluminum; ASTM B261.
- Castings will be squared and flat, free of burrs, slag, air pockets, blow holes, flashing, and grinding or welding on exposed surfaces. Excessive warping or shrinkage is not acceptable.
- Fabricated components will be mild carbon steel, ASTM A36.
- All visible welds to be ground smooth on outside edges.
- Fabrication will be true to square, or diameter and sized within 1/8".
- Finish to be powder coat, standard UA color and applied per UA specifications. If alternate color or finish is required, please provide all finish information for UA approval.
- Dimensions shown are nominal.
- For cases of "or equal" consideration, our finished, full size product should be compared with the alternative product for general quality, surface finish, precise pattern work, metal characteristics, and overall design aesthetics.

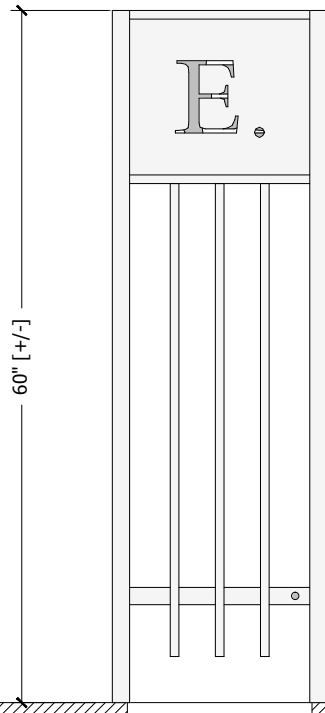
Tree Guards

Any Street

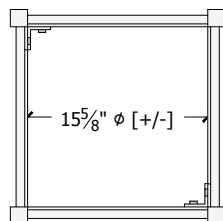
Page: 1 of 1 Date: 8/13/13



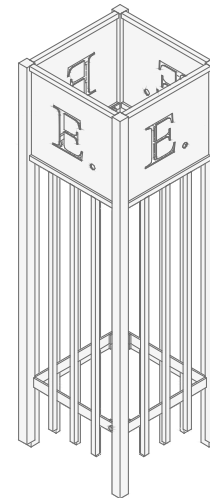
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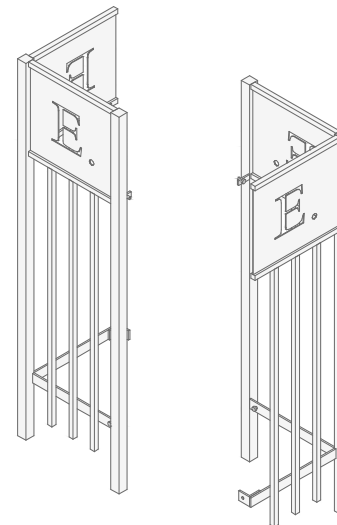
Elevation



Plan View



Isometric

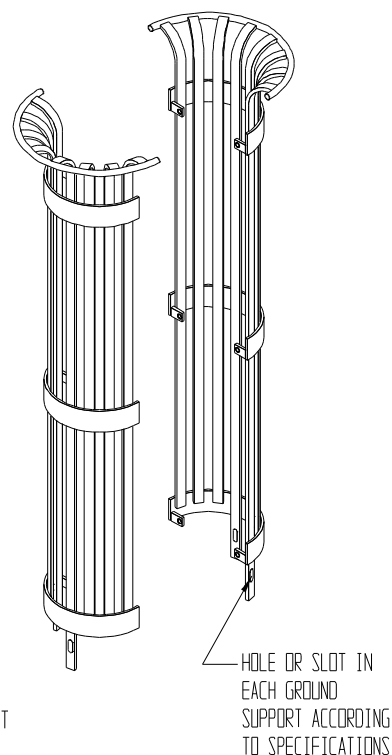
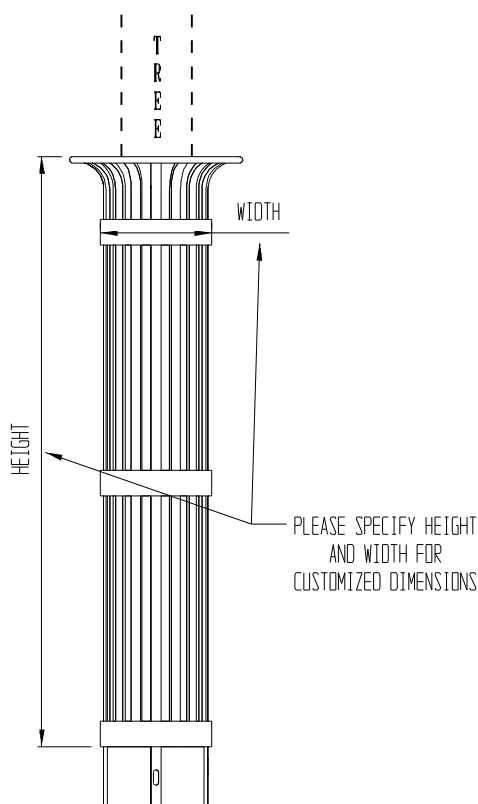
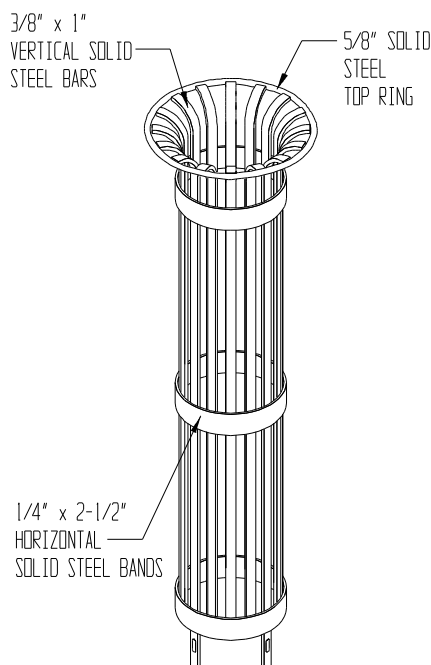


Exploded Isometric



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TEL (301) 855-8300 - FAX (410) 257-7579
WEB SITE: HTTP://WWW.VICTORSTANLEY.COM



AVAILABLE OPTIONS:

POWDER COATING

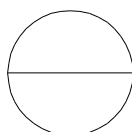
10 STANDARD COLORS, CUSTOM COLORS (INCLUDING THE RAL RANGE)

WIDTH & HEIGHT

CUSTOM HEIGHT AND WIDTH: PLEASE SPECIFY FOR CUSTOMIZED DIMENSIONS

NOTES:

1. DRAWING NOT TO SCALE. DO NOT SCALE DRAWINGS.
2. ALL FABRICATED METAL COMPONENTS ARE STEEL SHOTBLASTED, ETCHED, PHOSPHATIZED, PREHEATED, AND ELECTROSTATICALLY POWDER-COATED WITH T.G.I.C. POLYESTER POWDER COATINGS. PRODUCTS ARE FULLY CLEANED AND PRETREATED, PREHEATED AND COATED WHILE HOT TO FILL CREVICES AND BUILD COATING FILM. COATED PARTS ARE THEN FULLY CURED TO COATING MANUFACTURER'S SPECIFICATIONS. THE THICKNESS OF THE RESULTING FINISH COAT AVERAGES 8-10 MILS (200-250 MICRONS).
3. THIS VICTOR STANLEY, INC. PRODUCT MUST BE PERMANENTLY AFFIXED TO THE GROUND. CONSULT YOUR LOCAL CODES FOR REGULATIONS.
4. ANCHOR BOLTS PROVIDED BY OTHERS.
5. FOR HIGH SALT ABUSIVE CLIMATES, HOT DIP GALVANIZING BEFORE POWDER COATING IS AVAILABLE. SEE WRITTEN SPECIFICATIONS FOR DETAILS.
6. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE. CONTACT MANUFACTURER FOR DETAILS.
7. THIS PRODUCT IS SHIPPED PARTIALLY UNASSEMBLED.



S-6

IRONSITES® SERIES TREE GUARD

SECTION 129300 (02870) SITE FURNISHINGS

PART 1 GENERAL

Model: S-6

1.1 DESCRIPTION

- A. Section includes information, materials, and options for products manufactured by Victor Stanley, Inc. All specifications are subject to change. Contact manufacturer for details.

1.2 SUBMITTALS

- A. Specifications Drawing: Detail drawing of product including overall dimensions and options.
- B. Samples: Various component samples available upon request.
- C. Qualifications: Installer must submit evidence of a successful installation history with comparable materials and designs specified.

1.3 DELIVERY, STORAGE, and HANDLING

- A. Delivery: Deliver products to site in manufacturer's original, unopened containers and packaging. Upon delivery, examine packages immediately to ensure all products are complete and undamaged.
- B. Storage: Store products in a protected, dry area in manufacturer's unopened containers and packaging.
- C. Handling: Protect product's finish from damage during handling and installation.

1.4 COORDINATION

- A. Coordinate with site work and other appropriate sections of the specifications to maintain proper provisions of the work specified.
- B. All site furnishings shall be laid out in the field and approved prior to installation.

PART 2 PRODUCTS

2.1 MANUFACTURER

- A. Victor Stanley, Inc.
P.O. Drawer 330
Dunkirk, MD 20754 USA
Toll Free: (800) 368-2573 (USA & Canada)
Tel: (301) 855-8300 Fax: (410) 257-7579
E-mail: sales@victorstanley.com
Web site: <http://www.victorstanley.com>

2.2 TREE GUARD

- A. Type: Model S-6 from the Ironsites® Series

2.3 MATERIALS

- A. 3/8" x 1" (10mm x 25mm) vertical solid steel bars; 1/4" x 2-1/2" (6mm x 64mm) horizontal solid steel bands; 5/8" (16mm) solid steel top ring, 3/8" x 1" (10mm x 25mm) anchor tabs.

OPTIONS

- A. Standard colors: VS Bronze, VS Black, VS Green, VS Tavern Square Green, VS Teal, VS Blue, VS Burgundy, VS Red, VS White, VS Gray (custom colors available, including the RAL range.)
- B. Custom height and width please specify.

2.4 FINISHES

- A. All fabricated metal components are steel shotblasted, etched, phosphatized, preheated, and electrostatically powder-coated with TGIC polyester powder coatings. Products are fully cleaned and pretreated, preheated and coated while hot to fill crevices and build coating film. Coated parts are fully cured to coating manufacturer's specifications. The thickness of the resulting finish averages 8-10 mils (200-250 microns).
- B. In high salt abusive climates, hot-dip galvanizing before powder coating is available. Hot-dip galvanizing is performed for Victor Stanley, Inc. by an experienced qualified firm to which products are shipped for galvanizing. Hot-dip galvanizing includes an aggressive pre-treatment and immersion in a tank of charged liquid zinc at or around 860°F (460°C). The resulting surface is resistant to rust but has some unevenness resulting from the bonding of the zinc to the steel surface. As a result, the powder-coating surface finish over that galvanized surface may exhibit bumps, unevenness, and may not be as smooth as Victor Stanley, Inc.'s standard finish; this uneven and inconsistent finish is normal for hot-dip galvanizing. Most fabricated metal components and castings can be hot-dip galvanized, please contact manufacturer for details.

PART 3 EXECUTION

3.1 INSTALLATION

- A. This Victor Stanley, Inc. product must be permanently affixed to the ground. Consult your local codes for regulations.

3.2 PROTECTION

- A. Protect products prior to installation by having them remain in the manufacturer's Packaging and container.

ITEM 1 • 11' LONG SHELTER
RESIDENTIAL / RURAL MODEL

Shelter structure fabricated all in aluminum:
3 1/2"Ø custom post extrusion 6061-T6
3 1/2"Ø custom torsion bars extrusion 6063-T5
3/8" thk machined aluminum plate 6061-T6
Aluminum components of shelter received
metallic silver #PM211S11 powder coat paint.

Ajustable legs for leveling in galvanised steel.
All fasteners to be stainless steel or hot dipped
galvanized structural bolts A325.

3/8" thk tempered glass panels with silver
"CeraFrit" safety strips on rear & sides.

3/16" thk cold form greenish "UV" polycarbonate
roof with aluminum trim on front & rear edges

Shelter supplied with following items :

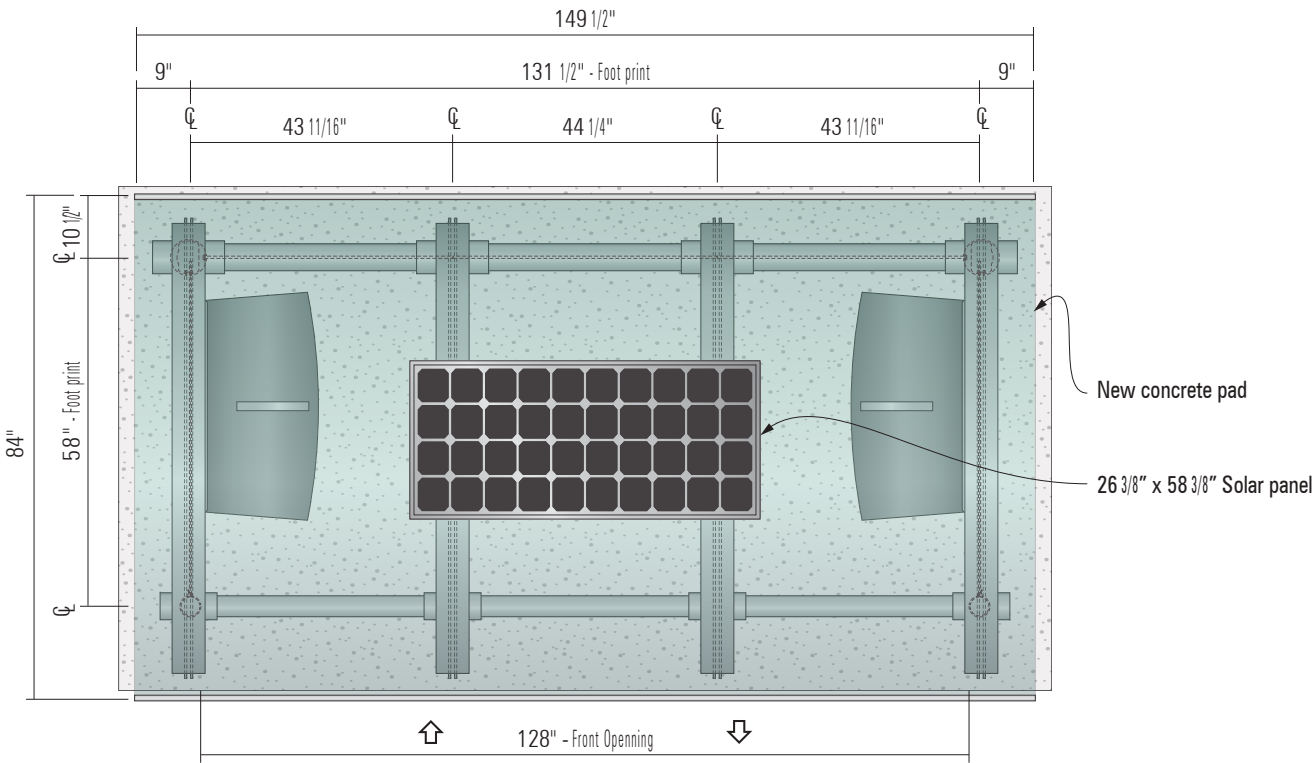
- (1) 6W / 12V MR16 LED lamp c/w (4) batteries
controller & 135w solar panel.

Ligthing active until dusk to dawn

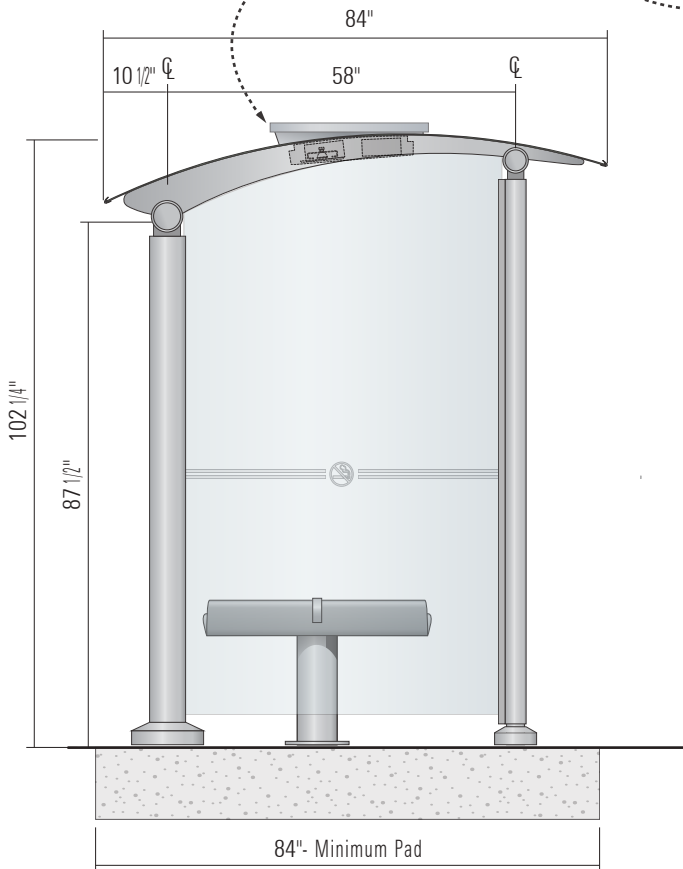
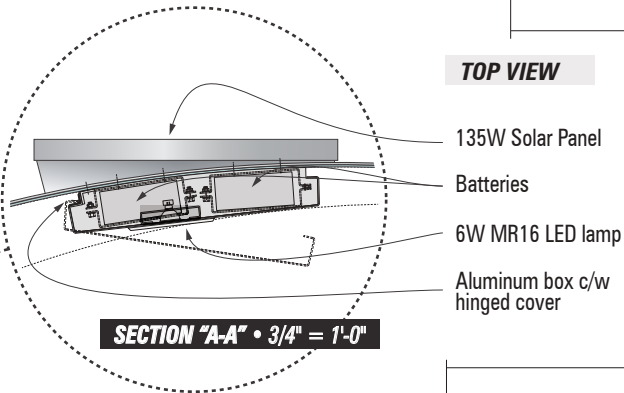
- (2) Double seated gray molded plastic benches

NOTE:

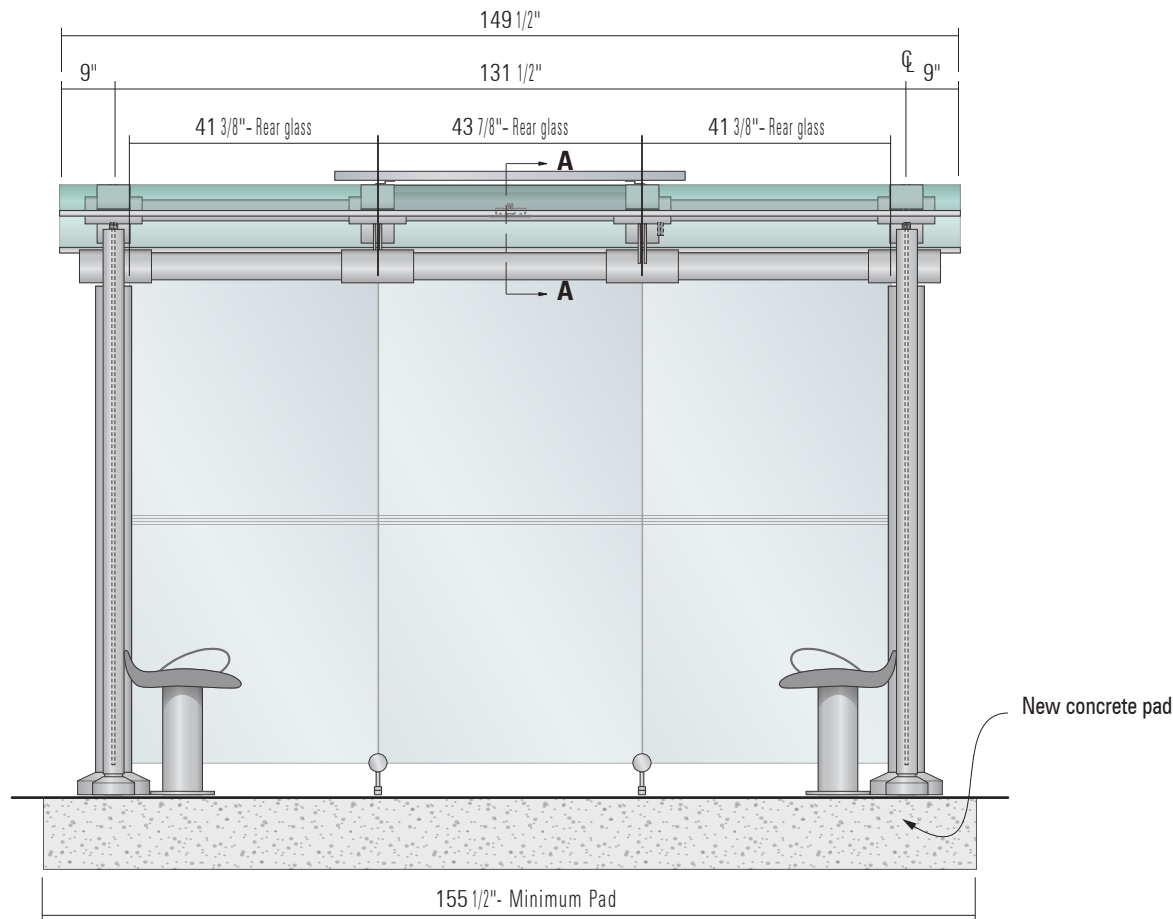
- New concrete pad required 84" x 155 1/2"
(minimum size)
- Standard rear glass panels
- Non-standard side glass panels



TOP VIEW



SIDE ELEVATION • Scale: 3/8" = 1'-0"



FRONT ELEVATION • Scale: 3/8" = 1'-0"

| | |
|-----------|-------------|
| QUOTE # | QT12-0294 |
| DRAWING # | D 6752-1-R2 |
| JOB # | J |

| | |
|------------------|-----------------------------|
| CLIENT: | CCTA |
| LOCATION: | Burlington, Vt. |
| PROJECT: | Residential & Rural Shelter |
| ACCT. EXECUTIVE: | C. Moussis |

| | |
|-----------|-------------------|
| DATE: | October 4th, 2012 |
| SCALE: | Ind. |
| DESIGNER: | J. Brisebois |

| REVISIONS | DESIGNER: | DATE: |
|-----------------|-----------|----------|
| TYPE: Std Glass | JB | 15-10-12 |
| No front glass | JB | 17-10-12 |

| | | |
|--|--|--|
| | | |
| | | |
| | | |

| | |
|------------------|-----------------------|
| APPROVED AS IS | APPROVED AS ANNOTATED |
| CLIENT: | |
| DATE: | |
| ACCT. EXECUTIVE: | |
| DATE: | |

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ITEM 2 • 8' LONG SHELTER
RESIDENTIAL / RURAL MODEL

Shelter structure fabricated all in aluminum:
3 1/2"Ø custom post extrusion 6061-T6
3 1/2"Ø custom torsion bars extrusion 6063-T5
3/8" thk machined aluminum plate 6061-T6
Aluminum components of shelter received
metallic silver #PM211S11 powder coat paint.

Ajustable legs for leveling in galvanised steel.
All fasteners to be stainless steel or hot dipped
galvanized structural bolts A325.

3/8" thk tempered glass panels with silver
"CeraFrit" safety strips on rear & sides.

3/16" thk cold form greenish "UV" polycarbonate
roof with aluminum trim on front & rear edges

Shelter supplied with following items :

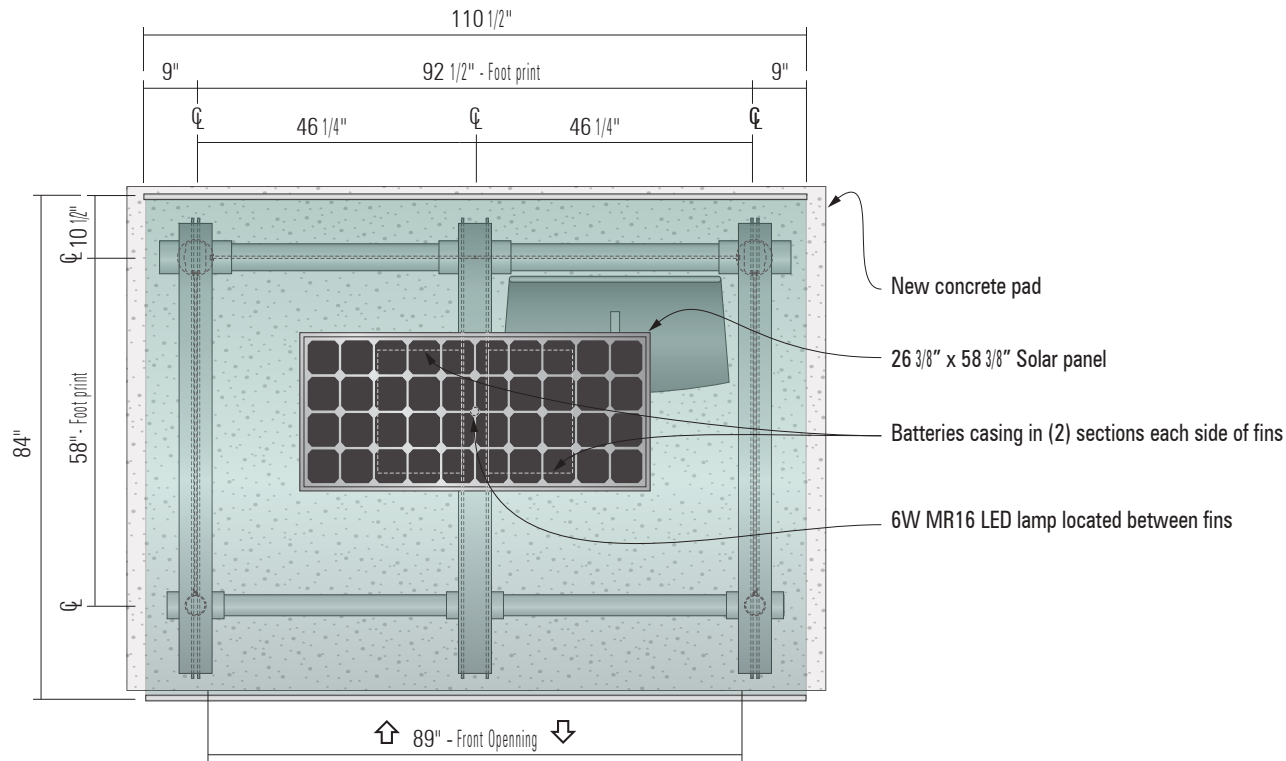
- (1) 6W / 12V MR16 LED lamp c/w (4) batteries
controller & 135w solar panel.

Ligthing active until dusk to dawn

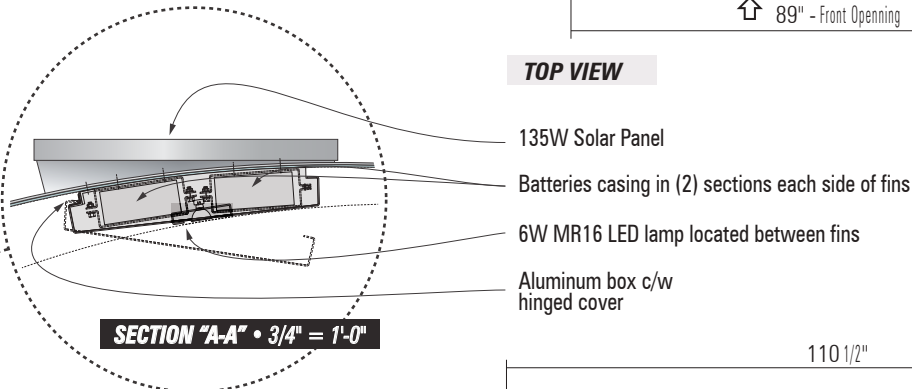
- (1) Double seated gray molded plastic benches

NOTE:

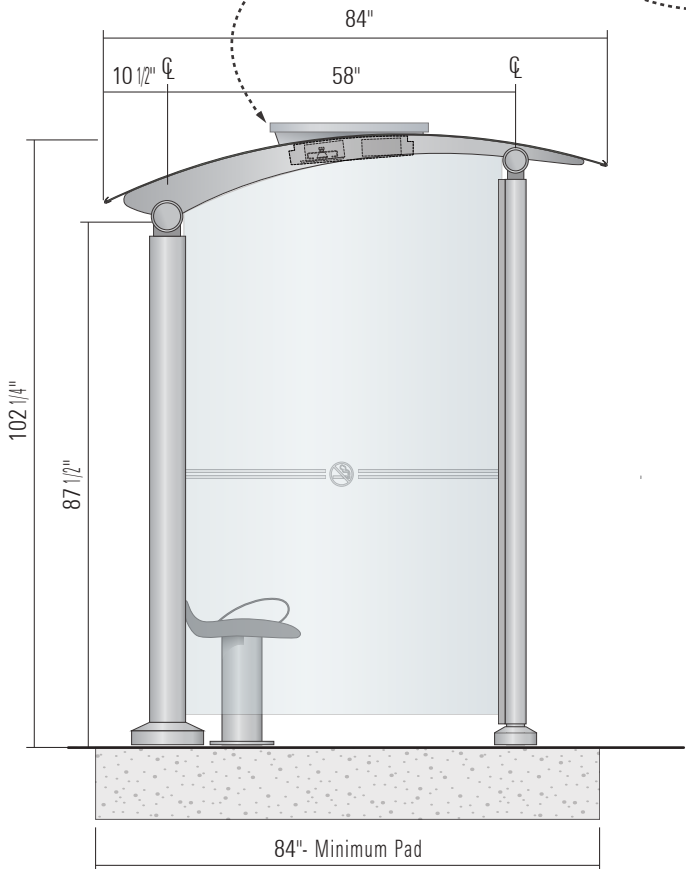
- New concrete pad required 84" x 116 1/2"
(minimum size)
- Standard rear glass panels
- Non-standard side glass panels



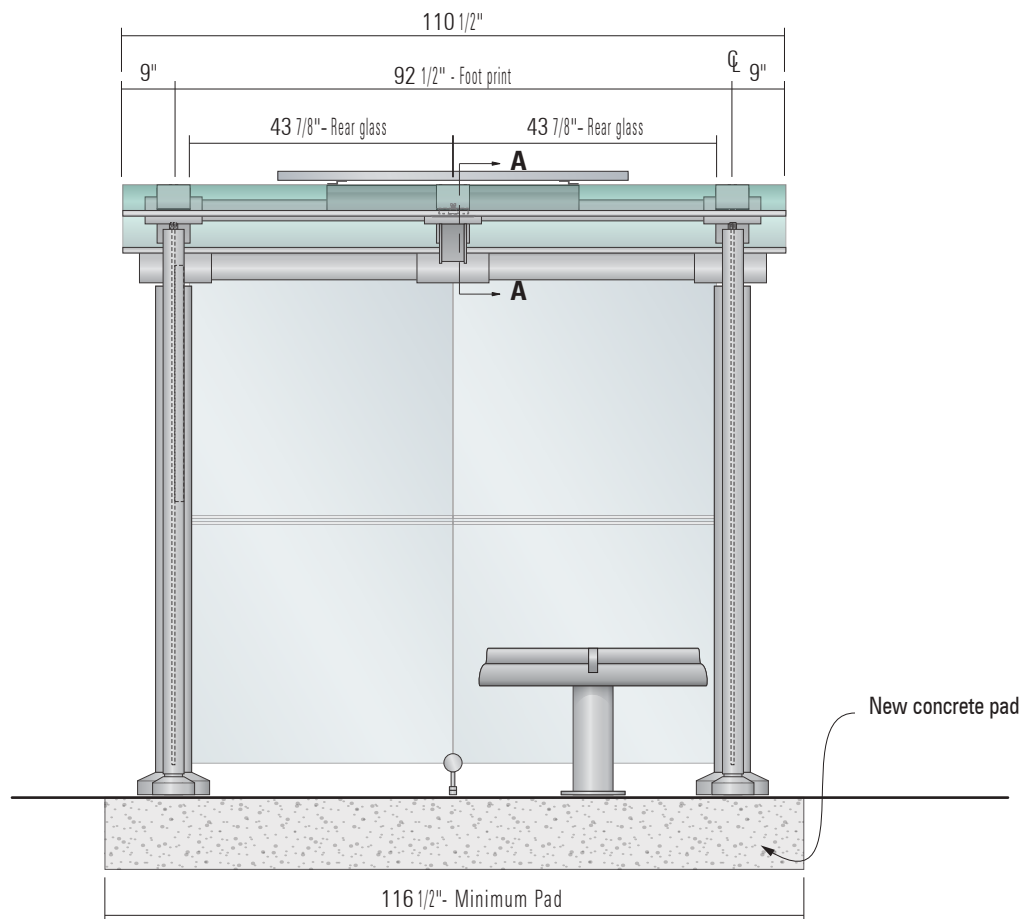
TOP VIEW



SECTION "A-A" • 3/4" = 1'-0"



SIDE ELEVATION • Scale: 3/8" = 1'-0"



FRONT ELEVATION • Scale: 3/8" = 1'-0"

| | |
|-----------|-------------|
| QUOTE # | QT12-0294 |
| DRAWING # | D 6752-2-R2 |
| JOB # | J |

| | |
|------------------|-----------------------------|
| CLIENT: | CCTA |
| LOCATION: | Burlington, Vt. |
| PROJECT: | Residential & Rural Shelter |
| ACCT. EXECUTIVE: | C. Moussis |

| | |
|-----------|-------------------|
| DATE: | October 4th, 2012 |
| SCALE: | Ind. |
| DESIGNER: | J. Brisebois |

| REVISIONS | TYPE: | DESIGNER: | DATE: |
|----------------|-------|-----------|-------|
| Std Glass | JB | 15-10-12 | |
| No front glass | JB | 17-10-12 | |

| | |
|------------------|-----------------------|
| APPROVED AS IS | APPROVED AS ANNOTATED |
| CLIENT: | |
| DATE: | |
| ACCT. EXECUTIVE: | |
| DATE: | |

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225 NORMAN St. LACHINE, QUEBEC CANADA H8R-1A3
T 1.800.663.0673 • T 514.486.2626 • F 514.486.6465

Shelter structure fabricated all in aluminum:
6" Ø custom post extrusion 6061-T6
3 1/2" & 4 1/2" Ø custom torsion bars extrusion 6063-T5
3/8" thk machined aluminum plate 6061-T6
Aluminum components of shelter received
metallic silver #PM211S11 powder coat paint.

3/8" thk laminated & heat-strengthened glass roof.

Shelter supplied with following items :

- (1) 12V - 6 W LED cluster fixture c/w (4) batteries, controller & 135W solar panel (5 days of autonomy).
- (4) Double seated gray molded plastic bench
- (1) 39 5/16" x 33 5/16" D/F map frame with tempered glass face for 36" x 36" visual.
- (2) Aluminum bollard c/w (2) 3M white reflective vinyl stripes.

Bollard position to be determined on site by customer

NOTE:

- New concrete pad required 84" x 283" (minimum size).
- Standard rear glass panels 41 3/8" x 81 1/16"
- Non-standard side glass panels.



LEFT ELEVATION • Scale: 3/8" = 1'-0"

| | |
|--------------------|-------------------|
| CLIENT: | CCTA |
| LOCATION: | Burlington, Vt. |
| PROJECT: | Shelter S 080 |
| ACCOUNT EXECUTIVE: | JP Chauvin |
| DATE: | 2015, March 26th, |
| SCALE: | Ind. |
| DESIGNER: | J. Brisebois |
| DIVISION: | |

| | | |
|----------------|---|---------------|
| 28" side glass | 1 | JB 2015/03/30 |
| | 2 | |
| | 3 | |
| | 4 | |
| | 5 | |
| | 6 | |
| | 7 | |
| | 8 | |
| | 9 | |

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Québec Canada H8R 1A3



Height Limitation for Mounting Single-Space Meters

- Installation Guide

100-022 Rev. A



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REVISION HISTORY

| Revision | Date | Description |
|----------|------------|-----------------|
| A | March 2016 | Initial release |

TABLE OF CONTENTS

| | |
|-------------------------------------------------|---|
| CHAPTER 1 Introduction..... | 5 |
| 1.1 ADA regulation..... | 5 |
| CHAPTER 2 Maximum Pole-Height Limitation..... | 6 |
| 2.1 Pole height by application | 6 |

FIGURES

| | |
|---------------------------------------------------------------------------------|---|
| Figure 1-1: ADA, Section 308.2.1 – Unobstructed forward reach requirement | 5 |
| Figure 2-1: Single-Space Meter Yoke..... | 6 |
| Figure 2-2: Single-Space meter + small vault | 7 |
| Figure 2-3: Single-Space meter + large vault | 7 |
| Figure 2-4: Single-Space meter + small vault + Yoke..... | 8 |
| Figure 2-5: Single-Space meter + large vault + Yoke..... | 8 |

TABLES

| | |
|----------------------------------------------------|---|
| Table 2-1: Approximate total assembly heights..... | 6 |
|----------------------------------------------------|---|

CHAPTER 1 | INTRODUCTION

This document details the maximum mounting-pole height limitations for mounting an IPS Group Inc.'s Single-Space parking meter. Specifically it provides maximum mounting-pole height measurements to use when mounting each of the following total assemblies:

- Single-Space with small vault
- Single-Space with large vault
- Yoke mounted with small vault
- Yoke mounted with large vault

1.1 ADA regulation

The Americans with Disabilities Act (ADA), Section 308.2.1 (Forward reach, Unobstructed. Revised in 2010), states the maximum height for a parking meter's control panel is 48 inches (or 4 feet) above ground. Therefore regardless of the height of the total assembly, the mounting-pole's height must be reduced enough to ensure the meter's control panel does not exceed 48 in.

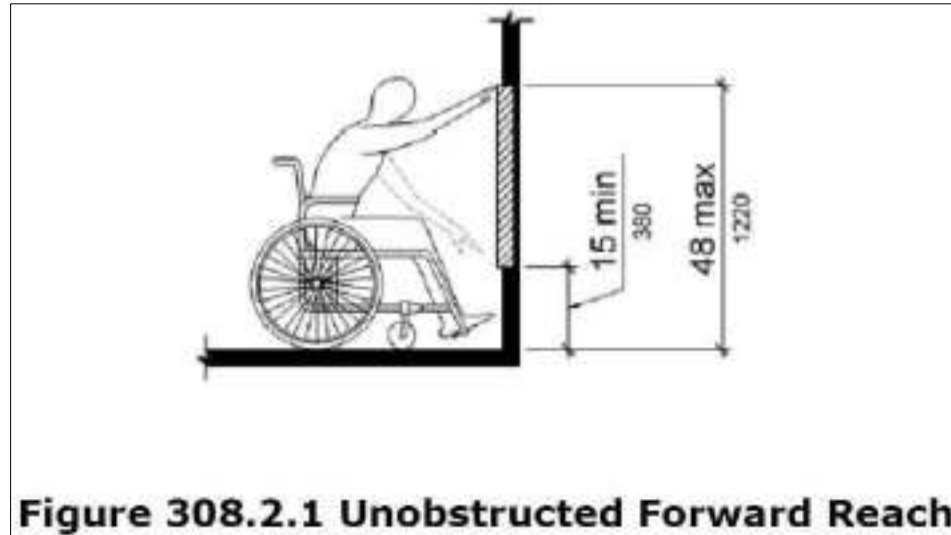


Figure 1-1: ADA, Section 308.2.1 – Unobstructed forward reach requirement

CHAPTER 2 | MAXIMUM POLE-HEIGHT LIMITATION

IPS Single-Space parking meters vary in height, depending on the coin vault being used. This coin vault height can dictate the maximum mounting-pole height allowable during installation (i.e. meter + vault). Additionally, the use of an IPS Single-Space Meter Yoke adds to the overall height of the total assembly (i.e. meter + vault + Yoke). Therefore, depending on the specific application, a mounting-pole's height must be reduced enough to ensure the installation satisfies ADA requirements.

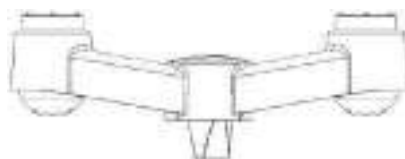


Figure 2-1: Single-Space Meter Yoke

2.1 Pole height by application

Table 2-1 lists the approximate total assembly height of specific applications. Figure 2-2 thru Figure 2-5 show the maximum mounting-pole height allowable for each application.

Note = 48 in. is the maximum allowable height. Therefore, reduce/cut the mounting-pole -1 in. more than the indicated height to ensure the final height is below 48 in. There is no penalty for a control panel height from 15 in. – 48 in.

Table 2-1: Approximate total assembly heights

| Single-Space application | Application height, approx. (in.) | ADA height req. – Application height (in.) | Maximum pole height (in.) |
|--------------------------|-----------------------------------|--------------------------------------------|---------------------------|
| SS + small vault | = 14.10 in. | 48.00 – 14.10 in. = | 33.90 in. |
| SS + large vault | = 16.00 in. | 48.00 – 16.00 in. = | 32.00 in. |
| SS +small vault + Yoke | = 17.50 in. | 48.00 – 17.50 in. = | 30.50 in. |
| SS + large vault + Yoke | = 19.10 in. | 48.00 – 19.10 in. = | 28.90 in. |

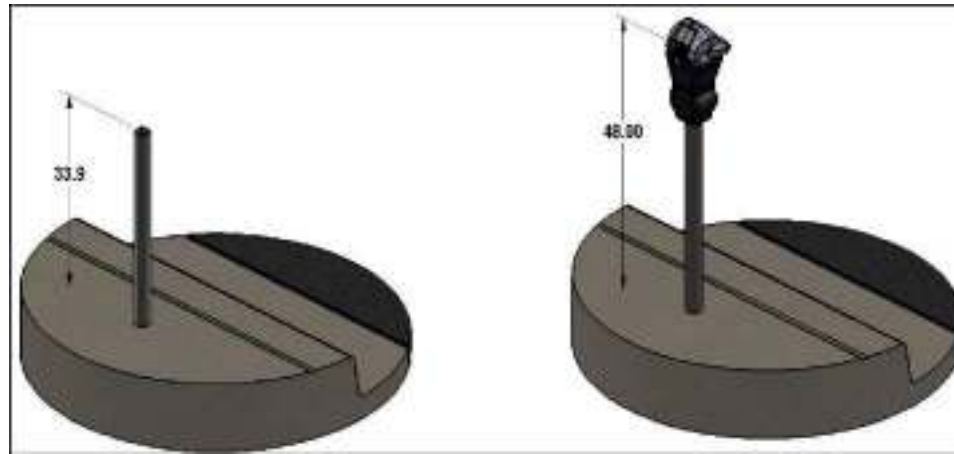


Figure 2-2: Single-Space meter + small vault

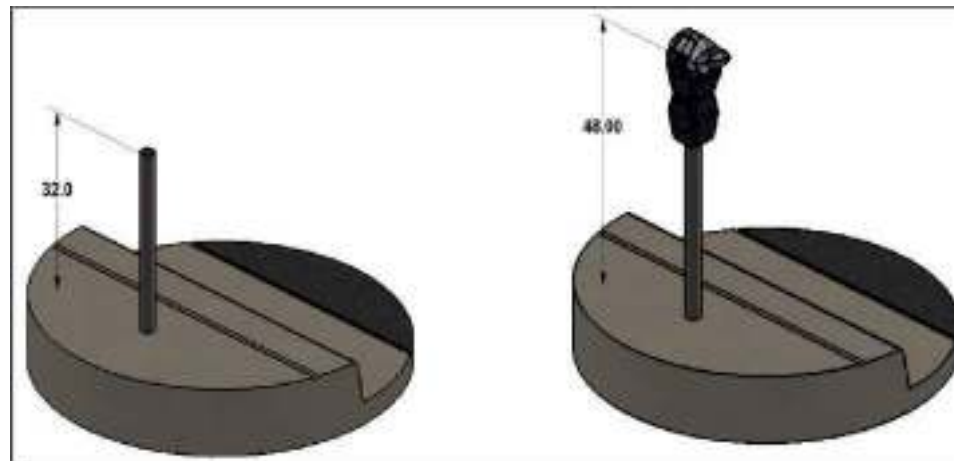


Figure 2-3: Single-Space meter + large vault

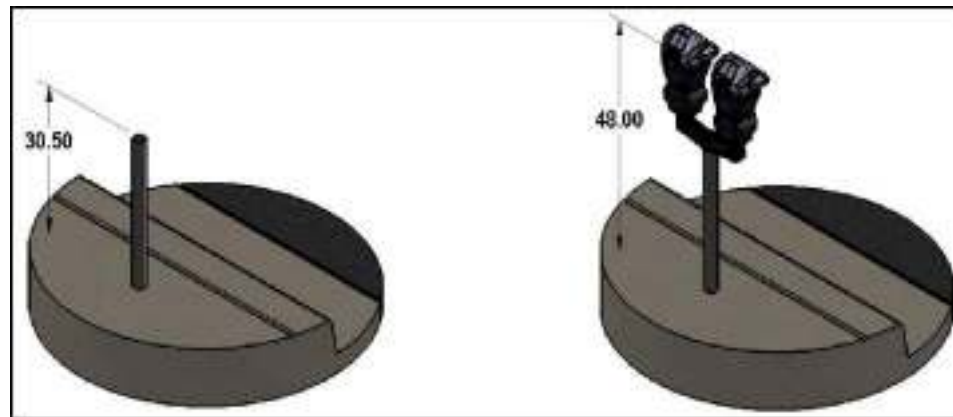


Figure 2-4: Single-Space meter + small vault + Yoke

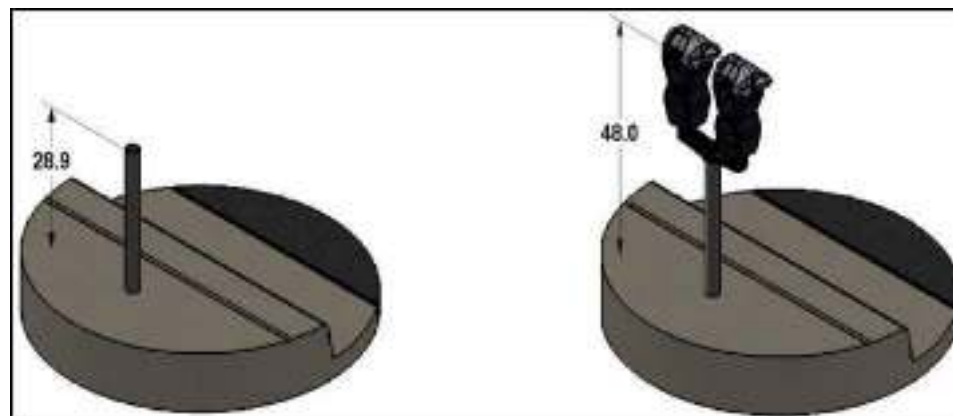


Figure 2-5: Single-Space meter + large vault + Yoke



ADA CERTIFICATION

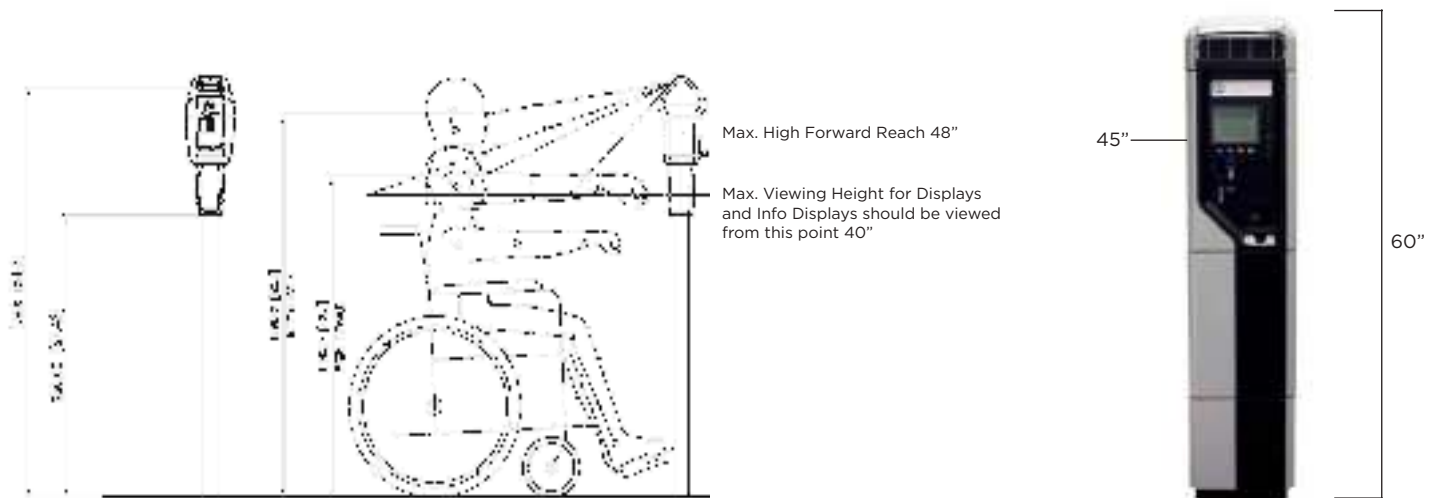
The MS1 Multi-Space Pay Station and M5™ Single Space Parking Meter are compliant with the Federal Americans with Disabilities Act (ADA).

-The pay station screen is positioned at a height of 45"

-IPS meters are ADA compliant as long as the meter poles are cut to the appropriate heights.

ADA - "The force required to activate operable parts shall be 5 pounds (22.2 N) maximum."

The MS1 and M5™ key buttons complies with this requirement. The force to operate the key buttons is typically equal or less than one pound.



Wheelchair accessible IPS meters in the City of Columbus, OH



QUICK AND EASY TO INSTALL



Step 1: Unlock the Meter.



Step 2: Remove the Dome and Mechanism.



Step 3: Install RFID Tag.



Step 4: Install IPS Dome and Mechanism.



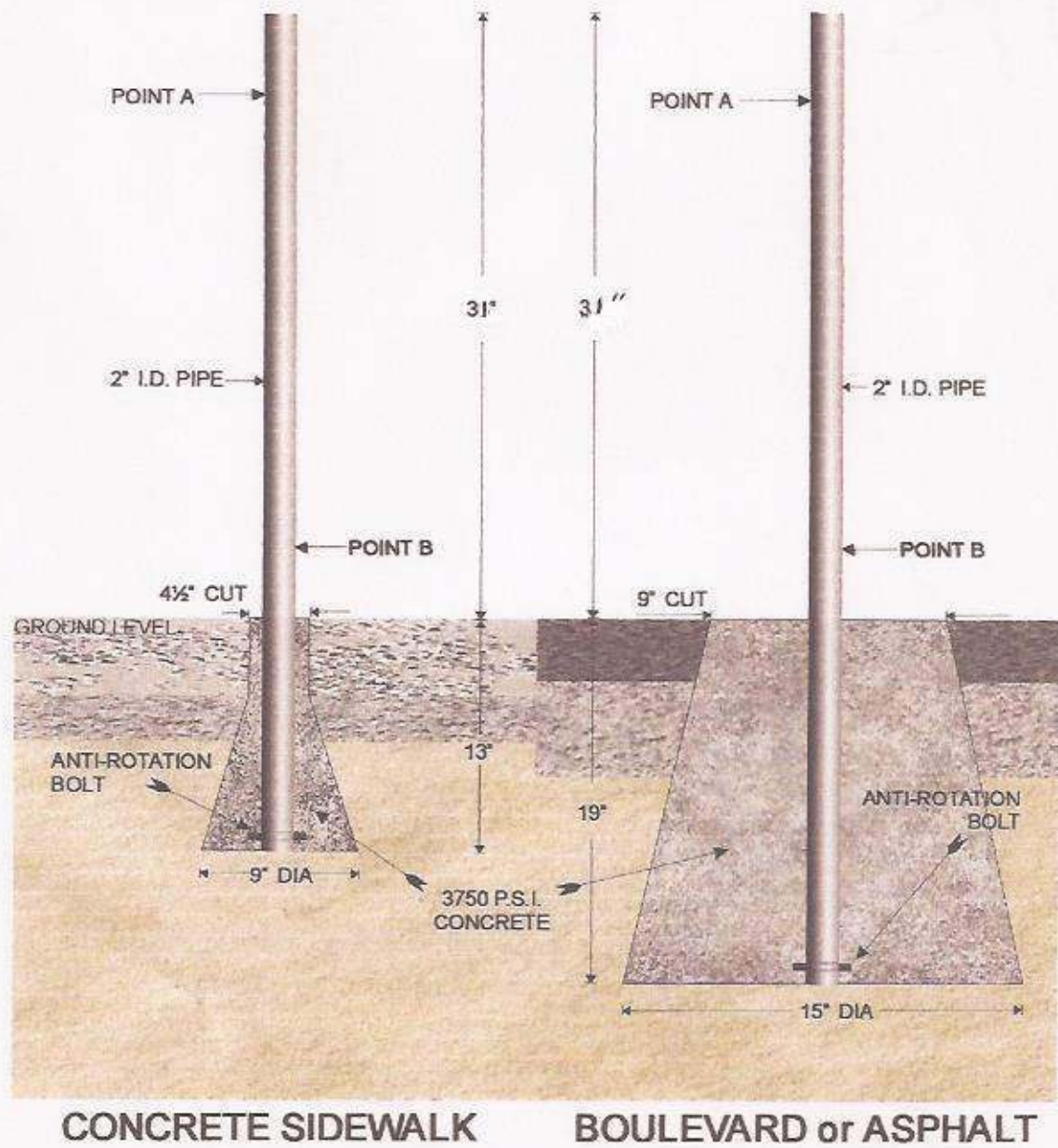
Step 5: Lock the Meter.



Step 6: Install complete.

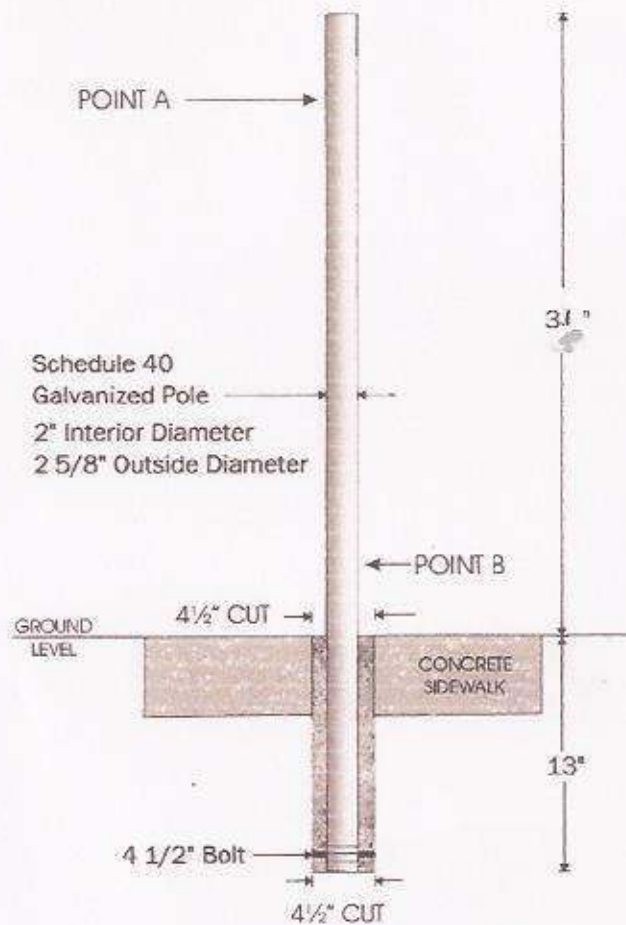


Note:- 1/2" holes to be drilled into one side (not through) pipe at Points A & B to release any water build-up and create air circulation.



Schedule 40 Galvanize Pole 2" I.D. 2 5/8" O.D.

Note:- 1/2" holes to be drilled into (not through) pipe at Points A & B to release any water build-up and create air circulation.



CONCRETE SIDEWALK

Schedule 40 Galvanize Pole 2" I.D. 2 5/8" O.D.

Note:- 1/2" holes to be drilled into (not through) pipe at Points A & B to release any water build-up and create air circulation.

